# WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Wednesday, December 01, 2004

| Hide? | Set Name | Query | Hit Count |
|---|---|---|---|
| | *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ* | | |
| ☐ | L16 | L14 AND L15 | 131 |
| ☐ | L15 | blood OR Serum | 481657 |
| ☐ | L14 | S100b OR S100beta | 200 |
| ☐ | L13 | L11 AND S100b | 29 |
| ☐ | L12 | L11 AND S100beta | 1 |
| ☐ | L11 | (435/7.1,7.21,7.94.CCLS.) | 11711 |
| ☐ | L10 | Barnett.IN. | 4368 |
| ☐ | L9 | Barnett-G.IN. | 24 |
| ☐ | L8 | Barnett-Gene.IN. | 1 |
| ☐ | L7 | Mayberg.IN. | 15 |
| ☐ | L6 | Mayberg-M.IN. | 4 |
| ☐ | L5 | Mayberg-M.IN. | 4 |
| ☐ | L4 | Mayberg-Marc.IN. | 4 |
| ☐ | L3 | Janigro.IN. | 10 |
| ☐ | L2 | Janigro-D.IN. | 3 |
| ☐ | L1 | (Janigro-Damir.IN.) | 4 |

END OF SEARCH HISTORY

h e b b cg b chh e gh f c e c ch

# WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Wednesday, December 01, 2004

| Hide? | Set Name | Query | Hit Count |
|---|---|---|---|
| | *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ* | | |
| ☐ | L18 | Mayberg-M-R.IN. | 3 |
| ☐ | L17 | Mayberg-Marc-R.IN. | 4 |
| ☐ | L16 | L14 AND L15 | 131 |
| ☐ | L15 | blood OR Serum | 481657 |
| ☐ | L14 | S100b OR S100beta | 200 |
| ☐ | L13 | L11 AND S100b | 29 |
| ☐ | L12 | L11 AND S100beta | 1 |
| ☐ | L11 | (435/7.1,7.21,7.94.CCLS.) | 11711 |
| ☐ | L10 | Barnett.IN. | 4368 |
| ☐ | L9 | Barnett-G.IN. | 24 |
| ☐ | L8 | Barnett-Gene.IN. | 1 |
| ☐ | L7 | Mayberg.IN. | 15 |
| ☐ | L6 | Mayberg-M.IN. | 4 |
| ☐ | L5 | Mayberg-M.IN. | 4 |
| ☐ | L4 | Mayberg-Marc.IN. | 4 |
| ☐ | L3 | Janigro.IN. | 10 |
| ☐ | L2 | Janigro-D.IN. | 3 |
| ☐ | L1 | (Janigro-Damir.IN.) | 4 |

END OF SEARCH HISTORY

h e b b cg b chh e gh f c e c ch

# Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20040009581 A1

**Using default format because multiple data bases are involved.**

L1: Entry 1 of 4 File: PGPB Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009581
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040009581 A1

TITLE: Markers of blood barrier disruption and methods of using same

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | Cleveland Heights | OH | US | |

US-CL-CURRENT: 435/287.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des.

☐ 2. Document ID: US 20030170747 A1

L1: Entry 2 of 4 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170747 A1

TITLE: Peripheral marker of blood brain barrier permeability

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | St. James Parkway | OH | US | |
| Mayberg, Marc | Chagrin Falls | OH | US | |
| Barnett, Gene | Gates Mills | OH | US | |

US-CL-CURRENT: 435/7.21; 435/7.9

ABSTRACT:

The present invention relates generally to a peripheral marker or markers of blood brain barrier ("BBB") integrity and methods of using same in the diagnosis, prognosis, and treatment of a variety of diseases. The peripheral marker(s) of the

present invention are particularly useful in the differential diagnosis of diseased states. The preferred embodiments of the present invention relate to methods, compositions, kits, and assays useful in determining the integrity or permeability of a blood brain barrier. The various embodiments of the present invention can be used to identify subjects at risk for developing a disease associated with increased permeability of the blood brain barrier, as well as to provide insight on the ability of an agent or agents to pass the blood brain barrier. Embodiments of the present invention preferably involve the use of subject derived blood samples to determine the occurrence and level of circulating proteins indicative of blood brain barrier permeability or integrity. The embodiments of the present invention also provides screening methods for diagnosis, prognosis, susceptibility, or degree of permeability of penetration of the blood brain barrier by detecting the presence of serum S-100.beta. either directly or through the use of antibodies. The present invention further provides for kits for carrying out the above described screening methods. Preferably, such kits will be used to screen patients for increased levels of S100.beta. protein alone or in combination with other markers of diseased states as a diagnostic and prognostic indicator of permeability of the BBB. Thus, the present invention provides a minimally invasive alternative to direct cerebrospinal fluid sampling to determine the permeability of the blood brain barrier.



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☐ 3. Document ID: US 20030054545 A1

L1: Entry 3 of 4 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054545
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054545 A1

TITLE: Cell and tissue culture modeling device and apparatus and method of using same

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | Cleveland Heights | OH | US | |
| McAllister, Mark S. | Saginaw | MI | US | |

US-CL-CURRENT: 435/297.4; 210/321.8, 435/29, 435/32, 435/400

ABSTRACT:

A cell and tissue culture modeling device comprising a housing having an interior chamber, an inlet port in fluid communication with the internal chamber, an outlet port in fluid communication with the internal chamber, a plurality of hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port. Each of the plurality of hollow fibers has an interior defining an intracapillary space and the interior chamber defines an extracapillary space unoccupied by the plurality of hollow fibers. To access the extracapillary space of the device, a portion of the housing is removable. The device can be used to conduct permeability, drug efficacy, and gene expression studies.



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☐ 4. Document ID: US 6667172 B2

L1: Entry 4 of 4 File: USPT Dec 23, 2003

US-PAT-NO: 6667172
DOCUMENT-IDENTIFIER: US 6667172 B2

TITLE: Cell and tissue culture modeling device and apparatus and method of using same

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Janigro; Damir | Cleveland Heights | OH | | |
| McAllister; Mark S. | Rocky River | OH | | |

US-CL-CURRENT: 435/297.4; 210/321.8, 359/398, 435/288.2, 435/29, 435/359, 435/400

ABSTRACT:

A cell and tissue culture modeling device comprising a housing having an interior chamber, an inlet port in fluid communication with the internal chamber, an outlet port in fluid communication with the internal chamber, a plurality of hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port. Each of the plurality of hollow fibers has an interior defining an intracapillary space and the interior chamber defines an extracapillary space unoccupied by the plurality of hollow fibers. To access the extracapillary space of the device, a portion of the housing is removable. The device can be used to conduct permeability, drug efficacy, and gene expression studies.

33 Claims, 11 Drawing figures
Exemplary Claim Number: 1,9,14,23
Number of Drawing Sheets: 10

# Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: WO 2004078204 A1, US 20040009581 A1

**Using default format because multiple data bases are involved.**

L2: Entry 1 of 3 File: DWPI Sep 16, 2004

DERWENT-ACC-NO: 2004-098607
DERWENT-WEEK: 200461
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Diagnosing of blood brain barrier integrity in a subject involves detecting elevated levels of transthyretin (TTR) protein in the blood sample derived from the subject

INVENTOR: JANIGRO, D

PRIORITY-DATA: 2002US-388371P (June 12, 2002), 2001US-0891023 (June 25, 2001), 2003US-0462222 (June 12, 2003)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 2004078204 A1 | September 16, 2004 | E | 000 | A61K039/00 |
| US 20040009581 A1 | January 15, 2004 | | 015 | C12M001/34 |

INT-CL (IPC): A61 K 39/00; A61 K 39/395; A61 K 47/00; C12 M 1/34; G01 N 33/00; G01 N 33/15; G01 N 33/48; G01 N 33/49

Full | Title | Citation | Front | Review | Classification | Date | Referen | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 20030170747 A1

L2: Entry 2 of 3 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

ABSTRACTED-PUB-NO: US20030170747A
BASIC-ABSTRACT:

NOVELTY - Diagnosis of blood brain barrier permeability comprising detecting levels of S100 beta protein in a blood sample of a subject, and comparing the result to S100 beta protein level of a control, is new. An increase in the level of S100 beta protein is indicative of blood brain barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient comprising administering an agent which causes blood brain barrier opening, detecting elevated levels of S100 beta protein in the patient's blood, and administering a therapeutic agent.

USE - For diagnosis of blood brain barrier permeability useful in detecting e.g. neuronal distress (claimed). It is also useful for detecting neurological disorder, e.g. tumors, cancer, degenerative disorders, sensory and motor abnormalities, seizure, infection, immunological disorder, mental disorder, behavioral disorder, and localized central nervous system (CNS) disease.

ADVANTAGE - The method provides a predictable and reliable monitoring of neurological status of a subject.



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☐ 3. Document ID: AU 2002341734 A1, US 20030054545 A1, WO 2003025206 A1, US 6667172 B2

L2: Entry 3 of 3 File: DWPI Apr 1, 2003

DERWENT-ACC-NO: 2003-810758
DERWENT-WEEK: 200452


TITLE: Cell and tissue culture modeling device useful for gene expression studies, comprises housing, an inlet and outlet port, several hollow fibers having intracapillary, and extracapillary space unoccupied by fibers

INVENTOR: JANIGRO, D ; MCALLISTER, M S

PRIORITY-DATA: 2001US-0957063 (September 19, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| AU 2002341734 A1 | April 1, 2003 | | 000 | C12Q001/02 |
| US 20030054545 A1 | March 20, 2003 | | 021 | C12M001/12 |
| WO 2003025206 A1 | March 27, 2003 | E | 000 | C12Q001/02 |
| US 6667172 B2 | December 23, 2003 | | 000 | C12M001/34 |

INT-CL (IPC): C12 M 1/12; C12 M 1/34; C12 M 3/06; C12 Q 1/02

ABSTRACTED-PUB-NO: US20030054545A
BASIC-ABSTRACT:

NOVELTY - Cell and tissue culture modeling device comprising a housing with an interior chamber, an inlet and outlet port in fluid communication with the chamber, several hollow fibers disposed within the chamber and traversing the length of the

housing between the ports, the hollow fibers having an interior defining an intracapillary space, is new. The interior chamber defines an extracapillary space unoccupied by fibers.

DETAILED DESCRIPTION - A cell and tissue culture modeling device (10) (I) has a housing (15) having an interior chamber (57), an inlet port (20) and outlet port (25) in fluid communication with the internal chamber, several hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port, each group of hollow fibers having an interior defining an intracapillary space, is new. The interior chamber defines an extracapillary space (67) unoccupied by several hollow fibers. At least a portion of the housing is removable to access the extracapillary space.

An INDEPENDENT CLAIM is also included for a cell and tissue culturing modeling apparatus (II) having at least one cell tissue culture modeling device including a housing having an interior chamber defining an extracapillary space, where at least a portion of the housing is removable to access the extracapillary space, an inlet port and outlet port in fluid communication with the internal chamber, with several hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port. Each group of hollow fibers has an interior. The interior is defined as an intracapillary space, a pump system, a media reservoir, a first conduit interconnecting the media reservoir to the pump system, a second conduit interconnecting the pump system to the inlet port of the at least one device, and a third conduit interconnecting the outlet port of the at least one device to the media reservoir.

USE - (I) is useful for determining (M1) the permeability of an agent across a capillary wall which involves providing a cell culture model having several capillaries disposed within an interior chamber which defines an extracapillary space unoccupied by several capillaries, each of the capillaries including several pores that provide fluid communication between an intracapillary space and the extracapillary space, passing an agent having a known concentration through several intracapillary spaces, sampling the extracapillary space to provide an extracapillary space sample, and analyzing the extracapillary space sample to determine the permeability of the agent across each of the capillary walls. Several intracapillary spaces are inoculated with endothelial cells. The extracapillary space is inoculated with glial cells. The sampling step is accomplished by a microdialysis-driven sample probe. (M1) further comprises a second cell culture modeling device to allow for the simultaneous determination of permeability values of at least two agents in a single experiment. (I) is useful for determining (M2) the efficacy of a drug which involves providing a model that exhibits the properties of a functional blood brain barrier (BBB), the model having several intracapillary spaces and an extracapillary space accessible by an access panel, placing a tissue sample into the extracapillary space, passing an agent through the several intracapillary spaces, and analyzing the tissue sample for responsiveness to the agent. The tissue sample is a cancerous tissue sample, preferably, a brain tissue sample. The agent is a chemotherapeutic agent. (M2) further involves placing a neurochip in the extracapillary space before placing the brain tissue sample into the extracapillary space, the neurochip is capable of studying the electrophysiological activity of the brain tissue sample. The brain tissue sample is placed onto the surface of the neurochip. The brain tissue sample is an epileptic brain tissue sample. The agent is an anticonvulsant agent. Determining the efficacy of a drug further involves examining the tissue sample in the extracapillary space with a microscope. (I) is useful for determining (M3) gene expression over time in cells which involves providing a cell culture model having several hollow fibers disposed within an interior chamber which defines an extracapillary space unoccupied by several hollow fibers, each several hollow fibers includes an intracapillary space inoculated with a cell suspension, passing an agent through several intracapillary spaces, sampling at least one several intracapillary spaces by removing at least one several hollow fibers over time, removing cellular material from at least one several hollow fibers, and analyzing the gene expression of the cellular material. The cellular material is chosen from RNA, DNA, metabolites and protein. (All claimed.) (I) is useful as clinically predictive tool for the efficacy of chemotherapeutic agents in the treatment of primary central nervous

system malignancy. (I) is useful for stimulating the blood brain barrier in in vitro, to conduct a permeability study, for conducting gene expression studies and to determine the efficacy of a drug.

ADVANTAGE - The relative flatness of the device makes it modular and thus automation of simultaneous permeability determinations of compounds and multiplexing is possible.

DESCRIPTION OF DRAWING(S) - The drawing shows a side exploded view of a cell and tissue culture modeling device.

Cell and tissue culture modeling device 10

Housing 15

Internal chamber 57

Bottom panel 95

First end wall 30

Opposing second end wall 35

First side wall 40

Opposing second side wall 45

First and second end walls 30,35

First and second side walls 40,45

Inlet port 20

Extracapillary space 67

Outlet port 25

Access ports 50

Top panel. 55





| Terms | Documents |
|---|---|
| Janigro-D.IN. | 3 |

# Hit List

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**Search Results** - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20040009581 A1

**Using default format because multiple data bases are involved.**

L3: Entry 1 of 10 File: PGPB Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009581
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040009581 A1

TITLE: Markers of blood barrier disruption and methods of using same

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | Cleveland Heights | OH | US | |

US-CL-CURRENT: 435/287.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des.

☐ 2. Document ID: US 20030170747 A1

L3: Entry 2 of 10 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170747 A1

TITLE: Peripheral marker of blood brain barrier permeability

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | St. James Parkway | OH | US | |
| Mayberg, Marc | Chagrin Falls | OH | US | |
| Barnett, Gene | Gates Mills | OH | US | |

US-CL-CURRENT: 435/7.21; 435/7.9

ABSTRACT:

The present invention relates generally to a peripheral marker or markers of blood brain barrier ("BBB") integrity and methods of using same in the diagnosis, prognosis, and treatment of a variety of diseases. The peripheral marker(s) of the

present invention are particularly useful in the differential diagnosis of diseased states. The preferred embodiments of the present invention relate to methods, compositions, kits, and assays useful in determining the integrity or permeability of a blood brain barrier. The various embodiments of the present invention can be used to identify subjects at risk for developing a disease associated with increased permeability of the blood brain barrier, as well as to provide insight on the ability of an agent or agents to pass the blood brain barrier. Embodiments of the present invention preferably involve the use of subject derived blood samples to determine the occurrence and level of circulating proteins indicative of blood brain barrier permeability or integrity. The embodiments of the present invention also provides screening methods for diagnosis, prognosis, susceptibility, or degree of permeability of penetration of the blood brain barrier by detecting the presence of serum S-100.beta. either directly or through the use of antibodies. The present invention further provides for kits for carrying out the above described screening methods. Preferably, such kits will be used to screen patients for increased levels of S100.beta. protein alone or in combination with other markers of diseased states as a diagnostic and prognostic indicator of permeability of the BBB. Thus, the present invention provides a minimally invasive alternative to direct cerebrospinal fluid sampling to determine the permeability of the blood brain barrier.



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☐ 3. Document ID: US 20030054545 A1

L3: Entry 3 of 10 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054545
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054545 A1

TITLE: Cell and tissue culture modeling device and apparatus and method of using same

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | Cleveland Heights | OH | US | |
| McAllister, Mark S. | Saginaw | MI | US | |

US-CL-CURRENT: 435/297.4; 210/321.8, 435/29, 435/32, 435/400

ABSTRACT:

A cell and tissue culture modeling device comprising a housing having an interior chamber, an inlet port in fluid communication with the internal chamber, an outlet port in fluid communication with the internal chamber, a plurality of hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port. Each of the plurality of hollow fibers has an interior defining an intracapillary space and the interior chamber defines an extracapillary space unoccupied by the plurality of hollow fibers. To access the extracapillary space of the device, a portion of the housing is removable. The device can be used to conduct permeability, drug efficacy, and gene expression studies.

☐ 4. Document ID: US 6667172 B2

L3: Entry 4 of 10 File: USPT Dec 23, 2003

US-PAT-NO: 6667172
DOCUMENT-IDENTIFIER: US 6667172 B2

TITLE: Cell and tissue culture modeling device and apparatus and method of using same

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Janigro; Damir | Cleveland Heights | OH | | |
| McAllister; Mark S. | Rocky River | OH | | |

US-CL-CURRENT: 435/297.4; 210/321.8, 359/398, 435/288.2, 435/29, 435/359, 435/400

ABSTRACT:

A cell and tissue culture modeling device comprising a housing having an interior chamber, an inlet port in fluid communication with the internal chamber, an outlet port in fluid communication with the internal chamber, a plurality of hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port. Each of the plurality of hollow fibers has an interior defining an intracapillary space and the interior chamber defines an extracapillary space unoccupied by the plurality of hollow fibers. To access the extracapillary space of the device, a portion of the housing is removable. The device can be used to conduct permeability, drug efficacy, and gene expression studies.

33 Claims, 11 Drawing figures
Exemplary Claim Number: 1,9,14,23
Number of Drawing Sheets: 10



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☐ 5. Document ID: US 5425618 A

L3: Entry 5 of 10 File: USPT Jun 20, 1995

US-PAT-NO: 5425618
DOCUMENT-IDENTIFIER: US 5425618 A

TITLE: Multistage pump provided with modular internal components made of wearproof materials

DATE-ISSUED: June 20, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Janigro; Aldo | Monza | | | IT |
| Valsecchi; Maurizio | Casarile | | | IT |
| De Bastiani; Fiorenzo | Seveso | | | IT |

US-CL-CURRENT: 415/199.1; 415/200

ABSTRACT:

A multistage pump of the type including a jacket, a shaft which is coaxial to the jacket and connected to an electric motor, and active pumping stages rigidly coupled to the shaft; each stage is formed by an impeller with a front ring and by a distribution element facing the ring with the interposition of an annular supporting element shaped like an inverted bowl; the radial-vane impellers and their distribution elements are rigidly coupled to the jacket made of a highly wearproof material, and the impellers are mounted on the shaft and can move axially or float with a preset stroke with respect to the associated bowl-shaped element, whereas at least one annular supporting and sealing element for the impeller is interposed between the front ring of each impeller and the associated bowl-shaped element, is made of a material which is more wearproof than the impellers, and is suitable to withstand the axial thrusts of the various stages and prevent any fluid seepage during pump operation.

8 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



☐ 6. Document ID: EP 602576 A1

L3: Entry 6 of 10 File: EPAB Jun 22, 1994

PUB-NO: EP000602576A1
DOCUMENT-IDENTIFIER: EP 602576 A1
TITLE: Multistage pump provided with modular internal components made of wearproof materials.

PUBN-DATE: June 22, 1994

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| JANIGRO, ALDO | IT |
| VALSECCHI, MAURIZIO | IT |
| DE, BASTIANI FIORENZO | IT |

US-CL-CURRENT: 415/198.1
INT-CL (IPC): F04D 1/06; F04D 7/04; F04D 29/44
EUR-CL (EPC): F04D001/06; F04D007/04, F04D029/44

ABSTRACT:

A multistage pump of the type including a jacket (1), a shaft (2) which is coaxial to the jacket and connected to an electric motor, and active pumping stages rigidly coupled to the shaft; each stage is formed by an impeller (5) with a front ring and by a distribution element (6) facing the ring with the interposition of an annular supporting element (7) shaped like an inverted bowl; the radial-vane impellers and their distribution elements are rigidly coupled to the jacket made of a highly wearproof material, and the impellers are mounted on the shaft and can move axially or float with a preset stroke with respect to the associated bowl-shaped element, whereas at least one annular supporting and sealing element (8) for the impeller is interposed between the front ring of each impeller and the associated bowl-shaped element, is made of a material which is more wearproof than the impellers, and is suitable to withstand the axial thrusts of the various stages and prevent any fluid

seepage during pump operation. 

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

☐ 7. Document ID: WO 2004078204 A1, US 20040009581 A1

L3: Entry 7 of 10 File: DWPI Sep 16, 2004

DERWENT-ACC-NO: 2004-098607
DERWENT-WEEK: 200461


TITLE: Diagnosing of blood brain barrier integrity in a subject involves detecting elevated levels of transthyretin (TTR) protein in the blood sample derived from the subject

INVENTOR: JANIGRO, D

PRIORITY-DATA: 2002US-388371P (June 12, 2002), 2001US-0891023 (June 25, 2001), 2003US-0462222 (June 12, 2003)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 2004078204 A1 | September 16, 2004 | E | 000 | A61K039/00 |
| US 20040009581 A1 | January 15, 2004 | | 015 | C12M001/34 |

INT-CL (IPC): A61 K 39/00; A61 K 39/395; A61 K 47/00; C12 M 1/34; G01 N 33/00; G01 N 33/15; G01 N 33/48; G01 N 33/49

ABSTRACTED-PUB-NO: US20040009581A
BASIC-ABSTRACT:

NOVELTY - A blood barrier integrity in a subject is diagnosed by detecting elevated levels of transthyretin (TTR) protein in the blood sample derived from a subject. The elevated levels of TTR protein indicate blood barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a kit for the diagnosis or prognosis of blood barrier integrity in a subject comprising a component for detecting the presence of TTR protein in a patient's blood sample.

USE - For diagnosing a blood brain barrier integrity in a subject.

ADVANTAGE - The inventive method provides diagnosis, prognosis, susceptibility, or degree of permeability of penetration of the blood brain barrier by simply detecting the presence of serum transthyretin either directly or through the use of antibodies.

DESCRIPTION OF DRAWING(S) - The drawing shows a diagrammatic representation of the different distribution between S-100 beta and transthyretin (TTR) in the brain.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

☐ 8. Document ID: US 20030170747 A1

L3: Entry 8 of 10 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410


TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

ABSTRACTED-PUB-NO: US20030170747A
BASIC-ABSTRACT:

NOVELTY - Diagnosis of blood brain barrier permeability comprising detecting levels of S100 beta protein in a blood sample of a subject, and comparing the result to S100 beta protein level of a control, is new. An increase in the level of S100 beta protein is indicative of blood brain barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient comprising administering an agent which causes blood brain barrier opening, detecting elevated levels of S100 beta protein in the patient's blood, and administering a therapeutic agent.

USE - For diagnosis of blood brain barrier permeability useful in detecting e.g. neuronal distress (claimed). It is also useful for detecting neurological disorder, e.g. tumors, cancer, degenerative disorders, sensory and motor abnormalities, seizure, infection, immunological disorder, mental disorder, behavioral disorder, and localized central nervous system (CNS) disease.

ADVANTAGE - The method provides a predictable and reliable monitoring of neurological status of a subject.



☐ 9. Document ID: AU 2002341734 A1, US 20030054545 A1, WO 2003025206 A1, US 6667172 B2

L3: Entry 9 of 10 File: DWPI Apr 1, 2003

DERWENT-ACC-NO: 2003-810758
DERWENT-WEEK: 200452


TITLE: Cell and tissue culture modeling device useful for gene expression studies, comprises housing, an inlet and outlet port, several hollow fibers having intracapillary, and extracapillary space unoccupied by fibers

INVENTOR: JANIGRO, D; MCALLISTER, M S

PRIORITY-DATA: 2001US-0957063 (September 19, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| AU 2002341734 A1 | April 1, 2003 | | 000 | C12Q001/02 |
| US 20030054545 A1 | March 20, 2003 | | 021 | C12M001/12 |
| WO 2003025206 A1 | March 27, 2003 | E | 000 | C12Q001/02 |
| US 6667172 B2 | December 23, 2003 | | 000 | C12M001/34 |

INT-CL (IPC): C12 M 1/12; C12 M 1/34; C12 M 3/06; C12 Q 1/02

ABSTRACTED-PUB-NO: US20030054545A
BASIC-ABSTRACT:

NOVELTY - Cell and tissue culture modeling device comprising a housing with an interior chamber, an inlet and outlet port in fluid communication with the chamber, several hollow fibers disposed within the chamber and traversing the length of the housing between the ports, the hollow fibers having an interior defining an intracapillary space, is new. The interior chamber defines an extracapillary space unoccupied by fibers.

DETAILED DESCRIPTION - A cell and tissue culture modeling device (10) (I) has a housing (15) having an interior chamber (57), an inlet port (20) and outlet port (25) in fluid communication with the internal chamber, several hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port, each group of hollow fibers having an interior defining an intracapillary space, is new. The interior chamber defines an extracapillary space (67) unoccupied by several hollow fibers. At least a portion of the housing is removable to access the extracapillary space.

An INDEPENDENT CLAIM is also included for a cell and tissue culturing modeling apparatus (II) having at least one cell tissue culture modeling device including a housing having an interior chamber defining an extracapillary space, where at least a portion of the housing is removable to access the extracapillary space, an inlet port and outlet port in fluid communication with the internal chamber, with several hollow fibers disposed within the interior chamber and traversing the length of the housing between the inlet port and the outlet port. Each group of hollow fibers has an interior. The interior is defined as an intracapillary space, a pump system, a media reservoir, a first conduit interconnecting the media reservoir to the pump system, a second conduit interconnecting the pump system to the inlet port of the at least one device, and a third conduit interconnecting the outlet port of the at least one device to the media reservoir.

USE - (I) is useful for determining (M1) the permeability of an agent across a capillary wall which involves providing a cell culture model having several capillaries disposed within an interior chamber which defines an extracapillary space unoccupied by several capillaries, each of the capillaries including several pores that provide fluid communication between an intracapillary space and the extracapillary space, passing an agent having a known concentration through several intracapillary spaces, sampling the extracapillary space to provide an extracapillary space sample, and analyzing the extracapillary space sample to determine the permeability of the agent across each of the capillary walls. Several intracapillary spaces are inoculated with endothelial cells. The extracapillary space is inoculated with glial cells. The sampling step is accomplished by a microdialysis-driven sample probe. (M1) further comprises a second cell culture modeling device to allow for the simultaneous determination of permeability values of at least two agents in a single experiment. (I) is useful for determining (M2) the efficacy of a drug which involves providing a model that exhibits the properties of a functional blood brain barrier (BBB), the model having several intracapillary spaces and an extracapillary space accessible by an access panel, placing a tissue sample into the extracapillary space, passing an agent through the several intracapillary spaces, and analyzing the tissue

sample for responsiveness to the agent. The tissue sample is a cancerous tissue sample, preferably, a brain tissue sample. The agent is a chemotherapeutic agent. (M2) further involves placing a neurochip in the extracapillary space before placing the brain tissue sample into the extracapillary space, the neurochip is capable of studying the electrophysiological activity of the brain tissue sample. The brain tissue sample is placed onto the surface of the neurochip. The brain tissue sample is an epileptic brain tissue sample. The agent is an anticonvulsant agent. Determining the efficacy of a drug further involves examining the tissue sample in the extracapillary space with a microscope. (I) is useful for determining (M3) gene expression over time in cells which involves providing a cell culture model having several hollow fibers disposed within an interior chamber which defines an extracapillary space unoccupied by several hollow fibers, each several hollow fibers includes an intracapillary space inoculated with a cell suspension, passing an agent through several intracapillary spaces, sampling at least one several intracapillary spaces by removing at least one several hollow fibers over time, removing cellular material from at least one several hollow fibers, and analyzing the gene expression of the cellular material. The cellular material is chosen from RNA, DNA, metabolites and protein. (All claimed.) (I) is useful as clinically predictive tool for the efficacy of chemotherapeutic agents in the treatment of primary central nervous system malignancy. (I) is useful for stimulating the blood brain barrier in in vitro, to conduct a permeability study, for conducting gene expression studies and to determine the efficacy of a drug.

ADVANTAGE - The relative flatness of the device makes it modular and thus automation of simultaneous permeability determinations of compounds and multiplexing is possible.

DESCRIPTION OF DRAWING(S) - The drawing shows a side exploded view of a cell and tissue culture modeling device.

Cell and tissue culture modeling device 10

Housing 15

Internal chamber 57

Bottom panel 95

First end wall 30

Opposing second end wall 35

First side wall 40

Opposing second side wall 45

First and second end walls 30,35

First and second side walls 40,45

Inlet port 20

Extracapillary space 67

Outlet port 25

Access ports 50

Top panel. 55

☐ 10. Document ID: EP 602576 A1, ES 2072237 T3, US 5425618 A, ES 2072237 T1, IT 1256730 B, EP 602576 B1, DE 69313989 E

L3: Entry 10 of 10 File: DWPI Jun 22, 1994

DERWENT-ACC-NO: 1994-193174
DERWENT-WEEK: 199806


TITLE: Multi-stage modular pump made of wear resistant materials - uses ceramic rotating parts to make high specific performance pumps

INVENTOR: DE BASTIANI, F; JANIGRO, A ; VALSECCHI, M

PRIORITY-DATA: 1992IT-MI02871 (December 16, 1992)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 602576 A1 | June 22, 1994 | E | 009 | F04D001/06 |
| ES 2072237 T3 | December 16, 1997 | | 000 | F04D001/06 |
| US 5425618 A | June 20, 1995 | | 007 | F01D001/02 |
| ES 2072237 T1 | July 16, 1995 | | 000 | F04D001/06 |
| IT 1256730 B | December 15, 1995 | | 000 | F04C000/00 |
| EP 602576 B1 | September 17, 1997 | E | 008 | F04D001/06 |
| DE 69313989 E | October 23, 1997 | | 000 | F04D001/06 |

INT-CL (IPC): F01D 1/02; F04C 0/00; F04D 1/06; F04D 7/04; F04D 29/44

ABSTRACTED-PUB-NO: EP 602576A
BASIC-ABSTRACT:

The multi-stage pump has a tubular jacket(1) and a central shaft(2) connected to an electric motor drive. Each pump stage has an impeller(5) with a diffuser(6) and fixed supporting element(7) shaped like an inverted tray or bowl. The moving stage parts are made of highly wear resistant materials such as ceramics and the impellers are axially floating with respect to the supporting members(7).

At least one annular supporting and sealing member for the impellers is interposed between the front ring of each impeller and the supporting element(7). This member withstands the axial thrust of the various stages and limits fluid seepage during pump operation.

USE/ADVANTAGE - The high speed high specific fluid dynamic performance pump can be used to make reduced diameter submersible pumps and the like.
ABSTRACTED-PUB-NO:

EP 602576B EQUIVALENT-ABSTRACTS:

A multistage pump comprising a tubular body (1) having an internal surface, a shaft (2) mounted rotatably within said tubular body (1) and a plurality of pump stages mounted on said shaft within said tubular body (1), wherein each of said pump stages comprises an impeller (5) radially keyed to said shaft, a flow distribution element (6) facing said impeller (5), a bowl-shaped supporting element (7) interposed between said impeller (5) and said flow distribution element (6), and an annular supporting and sealing element (8) for said impeller, said impeller (5) being axially slideable on said shaft (2) and resting on said annular element (8) during operation of said pump for discharging axial thrust onto said tubular body and comparing a first part (5a) and a second disk-shaped part (5b), said first part (5a) being radially keyed to

said shaft (2) and said second disk-shaped part 5b) having formed thereon a plurality of vanes, said annular element (8) being anchored to said bowl-shaped supporting element (7), characterised in that said bowl-shaped supporting element (7) is rigidly anchored with a cylindrical part (7a) thereof to said internal surface of said tubular body (1), and said impeller (5), and flow distribution element (6) and said annular element (8) are made of ceramic materials.

US 5425618A

The pump includes a jacket with a shaft which is coaxial to the jacket and connected to an electric motor, and active pumping stages rigidly coupled to the shaft. Each stage is formed by an impeller with a front ring and by a distribution element facing the ring with the interposition of an annular supporting element shaped like an inverted bowl. The radial-vane impellers and their distribution elements are rigidly coupled to the jacket made of a highly wearproof material.

The impellers are mounted on the shaft and can move axially or float with a preset stroke with respect to the associated bowl-shaped element. At least one annular supporting and sealing element for the impeller is interposed between the front ring of each impeller and the associated bowl-shaped element, is made of a material which is more wearproof than the impellers. It is suitable to withstand the axial thrusts of the various stages and prevent any fluid seepage during pump operation.

ADVANTAGE - Allows very high nominal rotation rates and a significantly higher specific fluid-dynamics performance than obtainable with known pumps. Eliminates transmission of the axial thrusts of the various stages to the impeller supporting shaft and also the conventional thrust bearing.

# Hit List

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**Search Results** - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030170747 A1

**Using default format because multiple data bases are involved.**

L4: Entry 1 of 4 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170747 A1

TITLE: Peripheral marker of blood brain barrier permeability

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | St. James Parkway | OH | US | |
| Mayberg, Marc | Chagrin Falls | OH | US | |
| Barnett, Gene | Gates Mills | OH | US | |

US-CL-CURRENT: 435/7.21; 435/7.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 5779694 A

L4: Entry 2 of 4 File: USPT Jul 14, 1998

US-PAT-NO: 5779694
DOCUMENT-IDENTIFIER: US 5779694 A

TITLE: Magnetic stereotactic system for treatment delivery

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottesville | VA | | |
| Gillies; George T. | Charlottesville | VA | | |

US-CL-CURRENT: 604/891.1; 600/12, 600/13, 604/158, 604/174

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

13 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



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☐ 3. Document ID: US 5707335 A

L4: Entry 3 of 4 File: USPT Jan 13, 1998

US-PAT-NO: 5707335
DOCUMENT-IDENTIFIER: US 5707335 A
**** See image for Certificate of Correction ****

TITLE: Magnetic stereotactic system and treatment delivery

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottesville | VA | | |
| Gillies; George T. | Charlottesville | VA | | |

US-CL-CURRENT: 600/12; 604/890.1, 604/891.1, 604/95.01

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system

moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

18 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



☐ 4. Document ID: US 5125888 A

L4: Entry 4 of 4 File: USPT Jun 30, 1992

US-PAT-NO: 5125888
DOCUMENT-IDENTIFIER: US 5125888 A

TITLE: Magnetic stereotactic system for treatment delivery

DATE-ISSUED: June 30, 1992

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottsville | VA | | |
| Gillies; George T. | Charlottsville | VA | | |

US-CL-CURRENT: 600/12; 604/890.1, 604/891.1

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

37 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des.

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| Terms | Documents |
|---|---|
| Mayberg-Marc.IN. | 4 |

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**Search Results** - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030170747 A1

**Using default format because multiple data bases are involved.**

L5: Entry 1 of 4 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 5779694 A

L5: Entry 2 of 4 File: DWPI Jul 14, 1998

DERWENT-ACC-NO: 1998-412893
DERWENT-WEEK: 200128
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TITLE: Drug delivery for specific locations, e.g. the brain for Parkinson or epileptic conditions - has a magnet and drug carrier with semi-automatically controlled electromagnetic positioner and visualisation system

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990), 1992US-0904032 (June 25, 1992), 1993US-0096214 (July 19, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5779694 A | July 14, 1998 | | 016 | A61M037/00 |

INT-CL (IPC): A61 K 9/22; A61 M 1/00; A61 M 37/00

ABSTRACTED-PUB-NO: US 5779694A
BASIC-ABSTRACT:

Drug delivery system has a magnet inserted into a body part, with a carrier taking the treatment to a specific location of the body part. The carrier is connected detachably to the magnet.

ADVANTAGE - Allows precise delivery, avoiding side effects from chemicals flooding the brain.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

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☐ 3. Document ID: US 5707335 A

L5: Entry 3 of 4 File: DWPI Jan 13, 1998

DERWENT-ACC-NO: 1998-100189
DERWENT-WEEK: 200128


TITLE: Apparatus comprising magnetic delivery lead attached to one end of thin body - useful for, e.g. delivering localised treatment for Parkinson's disease or temporal lobe epilepsy

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990), 1992US-0904032 (June 25, 1992), 1993US-0096214 (July 19, 1993), 1995US-0464279 (June 5, 1995)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5707335 A | January 13, 1998 | | 015 | A61N002/00 |

INT-CL (IPC): A61 N 2/00

ABSTRACTED-PUB-NO: US 5707335A
BASIC-ABSTRACT:

Apparatus has a magnetic delivery lead (121) attached to one end of a thin body (119). A treatment is associated with the body of the string. The treatment may be a gelatinous slurry of foetal neurons, genetically engineered cells, proteins or neurotrophic compounds. The treatment may be absorbed, embedded or coated on fibres of the string. An electromagnet external to a patient is used to position the lead and string within the patient's brain. The lead is heated to sever it from the string so it can be recovered.

USE - The apparatus may be used for localised treatment delivery especially for treating focal neurological disorders, e.g. Parkinson's disease or temporal lobe epilepsy.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

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☐ 4. Document ID: US 5125888 A

L5: Entry 4 of 4 File: DWPI Jun 30, 1992

DERWENT-ACC-NO: 1992-241755

DERWENT-WEEK: 200128


TITLE: Magnetic stereo-tactic system for treatment delivery - has magnetic object and treatment carrier connected by heat sensitive biodegradable connector to magnetic object, and external magnet

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5125888 A | June 30, 1992 | | 017 | A61N002/00 |

INT-CL (IPC): A61N 2/00

ABSTRACTED-PUB-NO: US 5125888A

BASIC-ABSTRACT:

The treatment delivery apparatus comprises a metallic object and a treatment carrier device connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. The robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location.

A computer controls the coil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

USE - For treating neurological disorders.

# Hit List

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**Search Results** - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030170747 A1

**Using default format because multiple data bases are involved.**

L6: Entry 1 of 4 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

FU | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 5779694 A

L6: Entry 2 of 4 File: DWPI Jul 14, 1998

DERWENT-ACC-NO: 1998-412893
DERWENT-WEEK: 200128
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Drug delivery for specific locations, e.g. the brain for Parkinson or epileptic conditions - has a magnet and drug carrier with semi-automatically controlled electromagnetic positioner and visualisation system

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990), 1992US-0904032 (June 25, 1992), 1993US-0096214 (July 19, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5779694 A | July 14, 1998 | | 016 | A61M037/00 |

INT-CL (IPC): A61 K 9/22; A61 M 1/00; A61 M 37/00

ABSTRACTED-PUB-NO: US 5779694A
BASIC-ABSTRACT:

Drug delivery system has a magnet inserted into a body part, with a carrier taking the treatment to a specific location of the body part. The carrier is connected detachably to the magnet.

ADVANTAGE - Allows precise delivery, avoiding side effects from chemicals flooding the brain.



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☐ 3. Document ID: US 5707335 A

L6: Entry 3 of 4 File: DWPI Jan 13, 1998

DERWENT-ACC-NO: 1998-100189
DERWENT-WEEK: 200128


TITLE: Apparatus comprising magnetic delivery lead attached to one end of thin body - useful for, e.g. delivering localised treatment for Parkinson's disease or temporal lobe epilepsy

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990), 1992US-0904032 (June 25, 1992), 1993US-0096214 (July 19, 1993), 1995US-0464279 (June 5, 1995)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5707335 A | January 13, 1998 | | 015 | A61N002/00 |

INT-CL (IPC): A61 N 2/00

ABSTRACTED-PUB-NO: US 5707335A
BASIC-ABSTRACT:

Apparatus has a magnetic delivery lead (121) attached to one end of a thin body (119). A treatment is associated with the body of the string. The treatment may be a gelatinous slurry of foetal neurons, genetically engineered cells, proteins or neurotrophic compounds. The treatment may be absorbed, embedded or coated on fibres of the string. An electromagnet external to a patient is used to position the lead and string within the patient's brain. The lead is heated to sever it from the string so it can be recovered.

USE - The apparatus may be used for localised treatment delivery especially for treating focal neurological disorders, e.g. Parkinson's disease or temporal lobe epilepsy.



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☐ 4. Document ID: US 5125888 A

L6: Entry 4 of 4 File: DWPI Jun 30, 1992

DERWENT-ACC-NO: 1992-241755

DERWENT-WEEK: 200128


TITLE: Magnetic stereo-tactic system for treatment delivery - has magnetic object and treatment carrier connected by heat sensitive biodegradable connector to magnetic object, and external magnet

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5125888 A | June 30, 1992 | | 017 | A61N002/00 |

INT-CL (IPC): A61N 2/00

ABSTRACTED-PUB-NO: US 5125888A
BASIC-ABSTRACT:

The treatment delivery apparatus comprises a metallic object and a treatment carrier device connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. The robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location.

A computer controls the coil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

USE - For treating neurological disorders.

# Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 15 of 15 returned.

☐ 1. Document ID: US 20030170747 A1

**Using default format because multiple data bases are involved.**

L7: Entry 1 of 15 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170747 A1

TITLE: Peripheral marker of blood brain barrier permeability

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | St. James Parkway | OH | US | |
| Mayberg, Marc | Chagrin Falls | OH | US | |
| Barnett, Gene | Gates Mills | OH | US | |

US-CL-CURRENT: 435/7.21; 435/7.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des.

☐ 2. Document ID: US 20030149450 A1

L7: Entry 2 of 15 File: PGPB Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030149450
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030149450 A1

TITLE: Brainstem and cerebellar modulation of cardiovascular response and disease

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mayberg, Marc R. | Chagrin Falls | OH | US | |

US-CL-CURRENT: 607/3

ABSTRACT:

The present invention is directed to an apparatus and methods for modulating brainstem and cerebellar circuits controlling blood pressure or heart rate using a variety of techniques including but not limited to surface stimulation, depth

electrode stimulation, and localized infusion of agents to these regions.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. Des

☐ 3. Document ID: US 6326017 B1

L7: Entry 3 of 15 File: USPT Dec 4, 2001

US-PAT-NO: 6326017
DOCUMENT-IDENTIFIER: US 6326017 B1

TITLE: Methods for the localized delivery of agents to blood vessels

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mayberg; Marc R. | Seattle | WA | | |

US-CL-CURRENT: 424/422; 424/423, 424/484, 424/486, 514/12, 514/423, 514/56, 604/890.1, 604/891.1

ABSTRACT:

Methods for the localized delivery of agents to blood vessels are disclosed. The methods of the present invention provide advantages over existing methods for treating, diagnosing, or preventing, vascular disorders. Localized delivery of agents permits the use of agents, such as heparin, for which systemic distribution may be undesirable. Suitable agents include antithrombotic and anti-intimal proliferation agents. An agent may be delivered to a blood vessel by a carrier, such as a polymer, which is adapted to restrict the release of the agent into tissue adjacent to the blood vessel. Alternatively, after applying a carrier to a blood vessel, the carrier may be covered with a barrier adapted to restrict the release of the agent into tissue adjacent to the blood vessel. The methods of the present invention may be applied to a variety of surgical and nonsurgical clinical settings.

10 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Des

☐ 4. Document ID: US 5779694 A

L7: Entry 4 of 15 File: USPT Jul 14, 1998

US-PAT-NO: 5779694
DOCUMENT-IDENTIFIER: US 5779694 A

TITLE: Magnetic stereotactic system for treatment delivery

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottesville | VA | | |
| Gillies; George T. | Charlottesville | VA | | |

US-CL-CURRENT: 604/891.1; 600/12, 600/13, 604/158, 604/174

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

13 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



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☐ 5. Document ID: US 5707335 A

L7: Entry 5 of 15 File: USPT Jan 13, 1998

US-PAT-NO: 5707335
DOCUMENT-IDENTIFIER: US 5707335 A
**** See image for Certificate of Correction ****

TITLE: Magnetic stereotactic system and treatment delivery

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottesville | VA | | |
| Gillies; George T. | Charlottesville | VA | | |

US-CL-CURRENT: 600/12; 604/890.1, 604/891.1, 604/95.01

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

18 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



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☐ 6. Document ID: US 5125888 A

L7: Entry 6 of 15 File: USPT Jun 30, 1992

US-PAT-NO: 5125888
DOCUMENT-IDENTIFIER: US 5125888 A

TITLE: Magnetic stereotactic system for treatment delivery

DATE-ISSUED: June 30, 1992

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottsville | VA | | |
| Gillies; George T. | Charlottsville | VA | | |

US-CL-CURRENT: 600/12; 604/890.1, 604/891.1

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent

the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

37 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



☐ 7. Document ID: WO 2004069328 A2

L7: Entry 7 of 15 File: EPAB Aug 19, 2004

PUB-NO: WO2004069328A2
DOCUMENT-IDENTIFIER: WO 2004069328 A2
TITLE: BRAINSTEM AND CEREBELLAR MODULATION OF CARDIOVASCULAR RESPONSE AND DISEASE

PUBN-DATE: August 19, 2004

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MAYBERG, MARC R | US |

INT-CL (IPC): A61 N 0/
EUR-CL (EPC): A61N001/08

ABSTRACT:

The present invention is directed to an apparatus and methods for modulating brainstem and cerebellar circuits controlling blood pressure or heart rate using a variety of techniques including but not limited to surface stimulation, depth electrode stimulation, and localized infusion of agents to these regions.



☐ 8. Document ID: WO 9411022 A1

L7: Entry 8 of 15 File: EPAB May 26, 1994

PUB-NO: WO009411022A1
DOCUMENT-IDENTIFIER: WO 9411022 A1
TITLE: USE OF TOPICALLY APPLIED FACTOR XIII FOR INHIBITING HEMORRHAGE

PUBN-DATE: May 26, 1994

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MAYBERG, MARC R | US |
| EDWARDS, MARTIN WILLIAM | |

INT-CL (IPC): A61K 37/52
EUR-CL (EPC): A61K038/45

ABSTRACT:

The present invention provides methods for inhibiting delayed bleeding of wounds and post-operative hemorrhage through the topical application of factor XIII. The methods may be used at surgical sites, including intracranial sites, and in coagulophatic patients.



☐ 9. Document ID: US 20030170747 A1

L7: Entry 9 of 15 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410


TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

ABSTRACTED-PUB-NO: US20030170747A
BASIC-ABSTRACT:

NOVELTY - Diagnosis of blood brain barrier permeability comprising detecting levels of S100 beta protein in a blood sample of a subject, and comparing the result to S100 beta protein level of a control, is new. An increase in the level of S100 beta protein is indicative of blood brain barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient comprising administering an agent which causes blood brain barrier opening, detecting elevated levels of S100 beta protein in the patient's blood, and administering a therapeutic agent.

USE - For diagnosis of blood brain barrier permeability useful in detecting e.g. neuronal distress (claimed). It is also useful for detecting neurological disorder, e.g. tumors, cancer, degenerative disorders, sensory and motor abnormalities, seizure, infection, immunological disorder, mental disorder, behavioral disorder, and

localized central nervous system (CNS) disease.

ADVANTAGE - The method provides a predictable and reliable monitoring of neurological status of a subject.



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☐ 10. Document ID: WO 2004069328 A2, US 20030149450 A1

L7: Entry 10 of 15 File: DWPI Aug 19, 2004

DERWENT-ACC-NO: 2003-801636
DERWENT-WEEK: 200455


TITLE: Autonomic response modulating apparatus for treating cardiovascular disorders, has therapeutic delivery device that is positioned near site of hindbrain structure of vertebrate to modulate function of hindbrain

INVENTOR: MAYBERG, M R

PRIORITY-DATA: 2002US-353701P (February 1, 2002), 2003US-0357161 (February 3, 2003)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 2004069328 A2 | August 19, 2004 | E | 000 | A61N000/00 |
| US 20030149450 A1 | August 7, 2003 | | 016 | A61N001/18 |

INT-CL (IPC): A61 N 0/00; A61 N 1/18

ABSTRACTED-PUB-NO: US20030149450A
BASIC-ABSTRACT:

NOVELTY - The apparatus has a therapeutic delivery device (26) positioned near a site of a hindbrain structure of a vertebrate (44) to modulate a function of the hindbrain. A controller in communication with the therapeutic delivery device enables the device to deliver the therapy. A sensor is electrically connected to the controller to measure a cardiovascular state of the vertebrate.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of controlling a cardiovascular state of a patient.

USE - Used for modulating autonomic response in treating cardiovascular disorders.

ADVANTAGE - The therapeutic delivery device delivering the therapy and stimulating the cardiovascular response provides a more precise real-time adjustment of a patients cardiovascular state. Therefore the amount of pharmaceutical required, when compared with traditional therapeutic treatments of cardiovascular conditions is eliminated or reduced.

DESCRIPTION OF DRAWING(S) - The drawing shows a sagittal view of a brain with a therapeutic delivery device placed into it.

Cerebral cortex 20

Cerebellum 24

Therapeutic delivery device 26

Medulla 34

Vertebrate 44



☐ 11. Document ID: US 6326017 B1

L7: Entry 11 of 15 File: DWPI Dec 4, 2001

DERWENT-ACC-NO: 2002-178583
DERWENT-WEEK: 200223


TITLE: Method for localized delivery of agents e.g. aspirin or heparin to blood vessels for treatment of vascular disorders without systemic effect, uses polymer matrix carrier e.g. polyvinylalcohol

INVENTOR: MAYBERG, M R

PRIORITY-DATA: 1989US-0416671 (October 2, 1989), 1991US-0780614 (October 23, 1991), 1993US-0042461 (April 5, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6326017 B1 | December 4, 2001 | | 006 | A61F013/00 |

INT-CL (IPC): A61 F 13/00; A61 K 9/14

ABSTRACTED-PUB-NO: US 6326017B

BASIC-ABSTRACT:

NOVELTY - A method for localized delivery of agents to blood vessels for treatment of vascular disorders without systemic effect, comprises applying a polymer matrix carrier impregnated with agent to the blood vessel.

DETAILED DESCRIPTION - A method for treating vascular disorders comprises applying a polymer matrix, which is permeable to an agent for treatment of a vascular disorder and impregnated with the agent, directly in contact with an external surface of an artery or vein; and covering the polymer matrix with a barrier adapted to restrict the release of agent into tissue adjacent to the artery or vein, so that the agent diffuses from the polymer directly to the external surface of the artery or vein, producing a localized effect on the artery or vein without systemic effect.

ACTIVITY - Thrombolytic; anticoagulant.

11 Rats were anesthetized and the distal common, external and internal carotid arteries were exposed bilaterally in the rat's neck. A 2-French balloon embolectomy catheter was introduced into both external carotid arteries, inflated and advanced to produce consistent endothelial dequamation in the segment of the artery. Additional vessel wall injury was produced by passing a wire along the desquamated luminal surface. Heparin sulfate (600units, 0.03ml) was mixed with polyvinyl alcohol (PVA, 0.06ml) to produce a viscous gel, and immediately applied around the adventitial surface of the de-endothelialized distal left (treated) common carotid artery and surrounded by a Silastic shell to prevent release into adjacent tissue. PVA without heparin was similarly applied to the right (control) common carotid artery. 30 Minutes after application of the PVA, both common carotid arteries were occluded by microclips at the ends of the segment with injured endothelium. After 1 hour of occlusion, the systemic prothrombin time and partial thromboplastin time were

determined from arterial blood drawn from a femoral catheter. Microclips were removed and blood flow established for 5 minutes. Vessels were perfusion-fixed in situ. The common carotid arteries were removed.

Scanning electron microscopy was performed on the luminal surface of control and heparin/PVA-treated desquamated rat common carotid arteries. The control vessel showed an extensive thrombus that completely occluded the lumen. The treated vessel showed complete endothelial desquamation with exposed subendothelial collagen. The luminal surface of the treated vessel was coated with a monolayer of adherent platelets, but no fibrin formation or erythrocyte thrombus was present.

A significant (greater than 20%) intraluminal thrombus was present in all 10 control vessels, 4 of which were completely occluded, whereas significant thrombus was visible in only 1 of 10 treated vessels. The thrombus:lumen ratio was reduced from 60.2 plus or minus 25.8% in control vessels to 4.1 plus or minus 9.6% in treated vessels.

MECHANISM OF ACTION - None given in the source material.

USE - For treating vascular disorders (claimed), e.g. thrombosis, and for surgical clinical conditions (e.g. endarterectomy, large vessel and microvascular anastomosis, cerebral and systemic venous procedures, arteriovenous shunts, angioplasty, and free flaps) and nonsurgical clinical conditions (e.g. deep-vein thrombosis, cardiac valvular disease and arterial stenosis).

ADVANTAGE - The localized delivery reduces or eliminates side effects of an agent (e.g. heparin) that result from its systemic administration, and high concentrations of agent are provided at the site of action.



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☐ 12. Document ID: US 5779694 A

L7: Entry 12 of 15 File: DWPI Jul 14, 1998

DERWENT-ACC-NO: 1998-412893
DERWENT-WEEK: 200128


TITLE: Drug delivery for specific locations, e.g. the brain for Parkinson or epileptic conditions - has a magnet and drug carrier with semi-automatically controlled electromagnetic positioner and visualisation system

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990), 1992US-0904032 (June 25, 1992), 1993US-0096214 (July 19, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5779694 A | July 14, 1998 | | 016 | A61M037/00 |

INT-CL (IPC): A61 K 9/22;

# Hit List

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**Search Results** - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030149450 A1

**Using default format because multiple data bases are involved.**

L17: Entry 1 of 4 File: PGPB Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030149450
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030149450 A1

TITLE: Brainstem and cerebellar modulation of cardiovascular response and disease

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mayberg, Marc R. | Chagrin Falls | OH | US | |

US-CL-CURRENT: 607/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 2. Document ID: US 6326017 B1

L17: Entry 2 of 4 File: USPT Dec 4, 2001

US-PAT-NO: 6326017
DOCUMENT-IDENTIFIER: US 6326017 B1

TITLE: Methods for the localized delivery of agents to blood vessels

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mayberg; Marc R. | Seattle | WA | | |

US-CL-CURRENT: 424/422; 424/423, 424/484, 424/486, 514/12, 514/423, 514/56, 604/890.1, 604/891.1

ABSTRACT:

Methods for the localized delivery of agents to blood vessels are disclosed. The methods of the present invention provide advantages over existing methods for treating, diagnosing, or preventing, vascular disorders. Localized delivery of agents permits the use of agents, such as heparin, for which systemic distribution may be undesirable. Suitable agents include antithrombotic and anti-intimal proliferation agents. An agent may be delivered to a blood vessel by a carrier, such as a polymer,

which is adapted to restrict the release of the agent into tissue adjacent to the blood vessel. Alternatively, after applying a carrier to a blood vessel, the carrier may be covered with a barrier adapted to restrict the release of the agent into tissue adjacent to the blood vessel. The methods of the present invention may be applied to a variety of surgical and nonsurgical clinical settings.

10 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

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☐ 3. Document ID: WO 2004069328 A2

L17: Entry 3 of 4 File: EPAB Aug 19, 2004

PUB-NO: WO2004069328A2
DOCUMENT-IDENTIFIER: WO 2004069328 A2
TITLE: BRAINSTEM AND CEREBELLAR MODULATION OF CARDIOVASCULAR RESPONSE AND DISEASE

PUBN-DATE: August 19, 2004

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MAYBERG, MARC R | US |

INT-CL (IPC): A61 N 0/
EUR-CL (EPC): A61N001/08

ABSTRACT:

The present invention is directed to an apparatus and methods for modulating brainstem and cerebellar circuits controlling blood pressure or heart rate using a variety of techniques including but not limited to surface stimulation, depth electrode stimulation, and localized infusion of agents to these regions.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

---

☐ 4. Document ID: WO 9411022 A1

L17: Entry 4 of 4 File: EPAB May 26, 1994

PUB-NO: WO009411022A1
DOCUMENT-IDENTIFIER: WO 9411022 A1
TITLE: USE OF TOPICALLY APPLIED FACTOR XIII FOR INHIBITING HEMORRHAGE

PUBN-DATE: May 26, 1994

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MAYBERG, MARC R | US |
| EDWARDS, MARTIN WILLIAM | |

INT-CL (IPC): A61K 37/52
EUR-CL (EPC): A61K038/45

ABSTRACT:

The present invention provides methods for inhibiting delayed bleeding of wounds and post-operative hemorrhage through the topical application of factor XIII. The methods may be used at surgical sites, including intracranial sites, and in coagulophatic patients.



| Terms | Documents |
|---|---|
| Mayberg-Marc-R.IN. | 4 |

# Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: WO 2004069328 A2, US 20030149450 A1

**Using default format because multiple data bases are involved.**

L18: Entry 1 of 3 File: DWPI Aug 19, 2004

DERWENT-ACC-NO: 2003-801636
DERWENT-WEEK: 200455
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Autonomic response modulating apparatus for treating cardiovascular disorders, has therapeutic delivery device that is positioned near site of hindbrain structure of vertebrate to modulate function of hindbrain

INVENTOR: MAYBERG, M R

PRIORITY-DATA: 2002US-353701P (February 1, 2002), 2003US-0357161 (February 3, 2003)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 2004069328 A2 | August 19, 2004 | E | 000 | A61N000/00 |
| US 20030149450 A1 | August 7, 2003 | | 016 | A61N001/18 |

INT-CL (IPC): A61 N 0/00; A61 N 1/18

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 2. Document ID: US 6326017 B1

L18: Entry 2 of 3 File: DWPI Dec 4, 2001

DERWENT-ACC-NO: 2002-178583
DERWENT-WEEK: 200223
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Method for localized delivery of agents e.g. aspirin or heparin to blood vessels for treatment of vascular disorders without systemic effect, uses polymer matrix carrier e.g. polyvinylalcohol

INVENTOR: MAYBERG, M R

PRIORITY-DATA: 1989US-0416671 (October 2, 1989), 1991US-0780614 (October 23, 1991), 1993US-0042461 (April 5, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6326017 B1 | December 4, 2001 | | 006 | A61F013/00 |

INT-CL (IPC): A61 F 13/00; A61 K 9/14

ABSTRACTED-PUB-NO: US 6326017B
BASIC-ABSTRACT:

NOVELTY - A method for localized delivery of agents to blood vessels for treatment of vascular disorders without systemic effect, comprises applying a polymer matrix carrier impregnated with agent to the blood vessel.

DETAILED DESCRIPTION - A method for treating vascular disorders comprises applying a polymer matrix, which is permeable to an agent for treatment of a vascular disorder and impregnated with the agent, directly in contact with an external surface of an artery or vein; and covering the polymer matrix with a barrier adapted to restrict the release of agent into tissue adjacent to the artery or vein, so that the agent diffuses from the polymer directly to the external surface of the artery or vein, producing a localized effect on the artery or vein without systemic effect.

ACTIVITY - Thrombolytic; anticoagulant.

11 Rats were anesthetized and the distal common, external and internal carotid arteries were exposed bilaterally in the rat's neck. A 2-French balloon embolectomy catheter was introduced into both external carotid arteries, inflated and advanced to produce consistent endothelial dequamation in the segment of the artery. Additional vessel wall injury was produced by passing a wire along the desquamated luminal surface. Heparin sulfate (600units, 0.03ml) was mixed with polyvinyl alcohol (PVA, 0.06ml) to produce a viscous gel, and immediately applied around the adventitial surface of the de-endothelialized distal left (treated) common carotid artery and surrounded by a Silastic shell to prevent release into adjacent tissue. PVA without heparin was similarly applied to the right (control) common carotid artery. 30 Minutes after application of the PVA, both common carotid arteries were occluded by microclips at the ends of the segment with injured endothelium. After 1 hour of occlusion, the systemic prothrombin time and partial thromboplastin time were determined from arterial blood drawn from a femoral catheter. Microclips were removed and blood flow established for 5 minutes. Vessels were perfusion-fixed in situ. The common carotid arteries were removed.

Scanning electron microscopy was performed on the luminal surface of control and heparin/PVA-treated desquamated rat common carotid arteries. The control vessel showed an extensive thrombus that completely occluded the lumen. The treated vessel showed complete endothelial desquamation with exposed subendothelial collagen. The luminal surface of the treated vessel was coated with a monolayer of adherent platelets, but no fibrin formation or erythrocyte thrombus was present.

A significant (greater than 20%) intraluminal thrombus was present in all 10 control vessels, 4 of which were completely occluded, whereas significant thrombus was visible in only 1 of 10 treated vessels. The thrombus:lumen ratio was reduced from 60.2 plus or minus 25.8% in control vessels to 4.1 plus or minus 9.6% in treated vessels.

MECHANISM OF ACTION - None given in the source material.

USE - For treating vascular disorders (claimed), e.g. thrombosis, and for surgical clinical conditions (e.g. endarterectomy, large vessel and microvascular anastomosis, cerebral and systemic venous procedures, arteriovenous shunts, angioplasty, and free flaps) and nonsurgical clinical conditions (e.g. deep-vein thrombosis, cardiac valvular disease and arterial stenosis).

ADVANTAGE - The localized delivery reduces or eliminates side effects of an agent (e.g. heparin) that result from its systemic administration, and high concentrations of agent are provided at the site of action.

☐ 3. Document ID: JP 2004231664 A, WO 9411022 A1, EP 669834 A1, JP 08505129 W, EP 669834 B1, DE 69326349 E, ES 2139729 T3, CA 2149209 C

L18: Entry 3 of 3 File: DWPI Aug 19, 2004

DERWENT-ACC-NO: 1994-183158
DERWENT-WEEK: 200454


TITLE: Inhibition of haemorrhage by topical application of factor XIII - useful for preventing delayed bleeding in wounds and operation sites

INVENTOR: EDWARDS, M W; MAYBERG, M R

PRIORITY-DATA: 1992US-0975026 (November 12, 1992)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| JP 2004231664 A | August 19, 2004 | | 009 | A61K038/43 |
| WO 9411022 A1 | May 26, 1994 | E | 020 | A61K037/52 |
| EP 669834 A1 | September 6, 1995 | E | 000 | A61K037/52 |
| JP 08505129 W | June 4, 1996 | | 018 | A61K038/43 |
| EP 669834 B1 | September 8, 1999 | E | 000 | A61K038/45 |
| DE 69326349 E | October 14, 1999 | | 000 | A61K038/45 |
| ES 2139729 T3 | February 16, 2000 | | 000 | A61K038/45 |
| CA 2149209 C | August 1, 2000 | E | 000 | A61K038/45 |

INT-CL (IPC): A61 K 37/52; A61 K 38/43; A61 K 38/45; A61 P 7/04

ABSTRACTED-PUB-NO: EP 669834B
BASIC-ABSTRACT:

Inhibiting post-operative haemorrhage comprises topical application of a compsn contg factor XIII to a surgical site.

USE/ADVANTAGE - The method inhibits delayed bleeding of wounds and post-operative haemorrhage. The compsns are applied prior to closing the surgical opening and pref after the site has been treated to induce haemostasis by conventional methods. The method reduces the incidence of post-operative haemorrhage esp. in high-risk settings.

The concn of factor XIII in the vehicle is 0.1-100 mg/ml, pref 1.0-10 mg/ml.
ABSTRACTED-PUB-NO:

WO 9411022A EQUIVALENT-ABSTRACTS:

Inhibiting post-operative haemorrhage comprises topical application of a compsn contg factor XIII to a surgical site.

USE/ADVANTAGE - The method inhibits delayed bleeding of wounds and post-operative haemorrhage. The compsns are applied prior to closing the surgical opening and pref after the site has been treated to induce haemostasis by conventional methods. The method reduces the incidence of post-operative haemorrhage esp. in high-risk settings.

The concn of factor XIII in the vehicle is 0.1-100 mg/ml, pref 1.0-10 mg/ml.

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

| Terms | Documents |
|---|---|
| Mayberg-M-R.IN. | 3 |

**Display Format:** - Change Format

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**Search Results** - Record(s) 1 through 15 of 15 returned.

☐ 1. Document ID: US 20030170747 A1

**Using default format because multiple data bases are involved.**

L7: Entry 1 of 15 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170747 A1

TITLE: Peripheral marker of blood brain barrier permeability

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | St. James Parkway | OH | US | |
| Mayberg, Marc | Chagrin Falls | OH | US | |
| Barnett, Gene | Gates Mills | OH | US | |

US-CL-CURRENT: 435/7.21; 435/7.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 20030149450 A1

L7: Entry 2 of 15 File: PGPB Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030149450
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030149450 A1

TITLE: Brainstem and cerebellar modulation of cardiovascular response and disease

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mayberg, Marc R. | Chagrin Falls | OH | US | |

US-CL-CURRENT: 607/3

ABSTRACT:

The present invention is directed to an apparatus and methods for modulating brainstem and cerebellar circuits controlling blood pressure or heart rate using a variety of techniques including but not limited to surface stimulation, depth

electrode stimulation, and localized infusion of agents to these regions.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc

☐ 3. Document ID: US 6326017 B1

L7: Entry 3 of 15 File: USPT Dec 4, 2001

US-PAT-NO: 6326017
DOCUMENT-IDENTIFIER: US 6326017 B1

TITLE: Methods for the localized delivery of agents to blood vessels

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mayberg; Marc R. | Seattle | WA | | |

US-CL-CURRENT: 424/422; 424/423, 424/484, 424/486, 514/12, 514/423, 514/56, 604/890.1, 604/891.1

ABSTRACT:

Methods for the localized delivery of agents to blood vessels are disclosed. The methods of the present invention provide advantages over existing methods for treating, diagnosing, or preventing, vascular disorders. Localized delivery of agents permits the use of agents, such as heparin, for which systemic distribution may be undesirable. Suitable agents include antithrombotic and anti-intimal proliferation agents. An agent may be delivered to a blood vessel by a carrier, such as a polymer, which is adapted to restrict the release of the agent into tissue adjacent to the blood vessel. Alternatively, after applying a carrier to a blood vessel, the carrier may be covered with a barrier adapted to restrict the release of the agent into tissue adjacent to the blood vessel. The methods of the present invention may be applied to a variety of surgical and nonsurgical clinical settings.

10 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

☐ 4. Document ID: US 5779694 A

L7: Entry 4 of 15 File: USPT Jul 14, 1998

US-PAT-NO: 5779694
DOCUMENT-IDENTIFIER: US 5779694 A

TITLE: Magnetic stereotactic system for treatment delivery

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottesville | VA | | |
| Gillies; George T. | Charlottesville | VA | | |

US-CL-CURRENT: 604/891.1; 600/12, 600/13, 604/158, 604/174

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

13 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



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☐ 5. Document ID: US 5707335 A

L7: Entry 5 of 15 File: USPT Jan 13, 1998

US-PAT-NO: 5707335
DOCUMENT-IDENTIFIER: US 5707335 A
**** See image for Certificate of Correction ****

TITLE: Magnetic stereotactic system and treatment delivery

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottesville | VA | | |
| Gillies; George T. | Charlottesville | VA | | |

US-CL-CURRENT: 600/12; 604/890.1, 604/891.1, 604/95.01

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

18 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



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☐ 6. Document ID: US 5125888 A

L7: Entry 6 of 15 File: USPT Jun 30, 1992

US-PAT-NO: 5125888
DOCUMENT-IDENTIFIER: US 5125888 A

TITLE: Magnetic stereotactic system for treatment delivery

DATE-ISSUED: June 30, 1992

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Matthew A. | Seattle | WA | | |
| Mayberg; Marc | Seattle | WA | | |
| Grady; M. Sean | Seattle | WA | | |
| Ritter; Rogers C. | Charlottsville | VA | | |
| Gillies; George T. | Charlottsville | VA | | |

US-CL-CURRENT: 600/12; 604/890.1, 604/891.1

ABSTRACT:

A treatment delivery apparatus comprises a metallic object and a treatment carrier device which is connected by a heat-sensitive biodegradable connector link to the magnetic object. This carrier device contains the treatment, i.e. the drug, to be transported. An electromagnet is positioned outside of the body part for producing a magnetic field which captures the magnetic object. This electromagnet may be either a simple coil system attached to a robotic arm which moves the electromagnet adjacent

the body part, or a multicoil electromagnet system surrounding the body part. In either case, the robotically moved electromagnet or multicoil electromagnet system moves the magnetic object within the body part to a desired location. A computer controls either the robotic arm or multicoil current magnitudes and directions. This computer also provides visualization for observing the location and movement of the magnetic object and carrier device. Upon reaching the desired location, the magnetic object is heated, which causes the heat-sensitive biodegradable connector link to melt, which separates the drug-containing carrier device from the magnetic object. The electromagnet means then moves the magnetic object back out of the body part. The treatment-containing carrier device remains in the desired location and the drug is delivered to the specific location.

37 Claims, 29 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



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☐ 7. Document ID: WO 2004069328 A2

L7: Entry 7 of 15 File: EPAB Aug 19, 2004

PUB-NO: WO2004069328A2
DOCUMENT-IDENTIFIER: WO 2004069328 A2
TITLE: BRAINSTEM AND CEREBELLAR MODULATION OF CARDIOVASCULAR RESPONSE AND DISEASE

PUBN-DATE: August 19, 2004

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MAYBERG, MARC R | US |

INT-CL (IPC): A61 N 0/
EUR-CL (EPC): A61N001/08

ABSTRACT:

The present invention is directed to an apparatus and methods for modulating brainstem and cerebellar circuits controlling blood pressure or heart rate using a variety of techniques including but not limited to surface stimulation, depth electrode stimulation, and localized infusion of agents to these regions.



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☐ 8. Document ID: WO 9411022 A1

L7: Entry 8 of 15 File: EPAB May 26, 1994

PUB-NO: WO009411022A1
DOCUMENT-IDENTIFIER: WO 9411022 A1
TITLE: USE OF TOPICALLY APPLIED FACTOR XIII FOR INHIBITING HEMORRHAGE

PUBN-DATE: May 26, 1994

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---|---|
| MAYBERG, MARC R | US |
| EDWARDS, MARTIN WILLIAM | |

INT-CL (IPC): A61K 37/52
EUR-CL (EPC): A61K038/45

ABSTRACT:

The present invention provides methods for inhibiting delayed bleeding of wounds and post-operative hemorrhage through the topical application of factor XIII. The methods may be used at surgical sites, including intracranial sites, and in coagulophatic patients.



☐ 9. Document ID: US 20030170747 A1

L7: Entry 9 of 15 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410


TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

ABSTRACTED-PUB-NO: US20030170747A
BASIC-ABSTRACT:

NOVELTY - Diagnosis of blood brain barrier permeability comprising detecting levels of S100 beta protein in a blood sample of a subject, and comparing the result to S100 beta protein level of a control, is new. An increase in the level of S100 beta protein is indicative of blood brain barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient comprising administering an agent which causes blood brain barrier opening, detecting elevated levels of S100 beta protein in the patient's blood, and administering a therapeutic agent.

USE - For diagnosis of blood brain barrier permeability useful in detecting e.g. neuronal distress (claimed). It is also useful for detecting neurological disorder, e.g. tumors, cancer, degenerative disorders, sensory and motor abnormalities, seizure, infection, immunological disorder, mental disorder, behavioral disorder, and

localized central nervous system (CNS) disease.

ADVANTAGE - The method provides a predictable and reliable monitoring of neurological status of a subject.



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☐ 10. Document ID: WO 2004069328 A2, US 20030149450 A1

L7: Entry 10 of 15 File: DWPI Aug 19, 2004

DERWENT-ACC-NO: 2003-801636
DERWENT-WEEK: 200455


TITLE: Autonomic response modulating apparatus for treating cardiovascular disorders, has therapeutic delivery device that is positioned near site of hindbrain structure of vertebrate to modulate function of hindbrain

INVENTOR: MAYBERG, M R

PRIORITY-DATA: 2002US-353701P (February 1, 2002), 2003US-0357161 (February 3, 2003)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 2004069328 A2 | August 19, 2004 | E | 000 | A61N000/00 |
| US 20030149450 A1 | August 7, 2003 | | 016 | A61N001/18 |

INT-CL (IPC): A61 N 0/00; A61 N 1/18

ABSTRACTED-PUB-NO: US20030149450A
BASIC-ABSTRACT:

NOVELTY - The apparatus has a therapeutic delivery device (26) positioned near a site of a hindbrain structure of a vertebrate (44) to modulate a function of the hindbrain. A controller in communication with the therapeutic delivery device enables the device to deliver the therapy. A sensor is electrically connected to the controller to measure a cardiovascular state of the vertebrate.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of controlling a cardiovascular state of a patient.

USE - Used for modulating autonomic response in treating cardiovascular disorders.

ADVANTAGE - The therapeutic delivery device delivering the therapy and stimulating the cardiovascular response provides a more precise real-time adjustment of a patients cardiovascular state. Therefore the amount of pharmaceutical required, when compared with traditional therapeutic treatments of cardiovascular conditions is eliminated or reduced.

DESCRIPTION OF DRAWING(S) - The drawing shows a sagittal view of a brain with a therapeutic delivery device placed into it.

Cerebral cortex 20

Cerebellum 24

Therapeutic delivery device 26

Medulla 34

Vertebrate 44



☐ 11. Document ID: US 6326017 B1

L7: Entry 11 of 15 File: DWPI Dec 4, 2001

DERWENT-ACC-NO: 2002-178583
DERWENT-WEEK: 200223


TITLE: Method for localized delivery of agents e.g. aspirin or heparin to blood vessels for treatment of vascular disorders without systemic effect, uses polymer matrix carrier e.g. polyvinylalcohol

INVENTOR: MAYBERG, M R

PRIORITY-DATA: 1989US-0416671 (October 2, 1989), 1991US-0780614 (October 23, 1991), 1993US-0042461 (April 5, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6326017 B1 | December 4, 2001 | | 006 | A61F013/00 |

INT-CL (IPC): A61 F 13/00; A61 K 9/14

ABSTRACTED-PUB-NO: US 6326017B
BASIC-ABSTRACT:

NOVELTY - A method for localized delivery of agents to blood vessels for treatment of vascular disorders without systemic effect, comprises applying a polymer matrix carrier impregnated with agent to the blood vessel.

DETAILED DESCRIPTION - A method for treating vascular disorders comprises applying a polymer matrix, which is permeable to an agent for treatment of a vascular disorder and impregnated with the agent, directly in contact with an external surface of an artery or vein; and covering the polymer matrix with a barrier adapted to restrict the release of agent into tissue adjacent to the artery or vein, so that the agent diffuses from the polymer directly to the external surface of the artery or vein, producing a localized effect on the artery or vein without systemic effect.

ACTIVITY - Thrombolytic; anticoagulant.

11 Rats were anesthetized and the distal common, external and internal carotid arteries were exposed bilaterally in the rat's neck. A 2-French balloon embolectomy catheter was introduced into both external carotid arteries, inflated and advanced to produce consistent endothelial dequamation in the segment of the artery. Additional vessel wall injury was produced by passing a wire along the desquamated luminal surface. Heparin sulfate (600units, 0.03ml) was mixed with polyvinyl alcohol (PVA, 0.06ml) to produce a viscous gel, and immediately applied around the adventitial surface of the de-endothelialized distal left (treated) common carotid artery and surrounded by a Silastic shell to prevent release into adjacent tissue. PVA without heparin was similarly applied to the right (control) common carotid artery. 30 Minutes after application of the PVA, both common carotid arteries were occluded by microclips at the ends of the segment with injured endothelium. After 1 hour of occlusion, the systemic prothrombin time and partial thromboplastin time were

determined from arterial blood drawn from a femoral catheter. Microclips were removed and blood flow established for 5 minutes. Vessels were perfusion-fixed in situ. The common carotid arteries were removed.

Scanning electron microscopy was performed on the luminal surface of control and heparin/PVA-treated desquamated rat common carotid arteries. The control vessel showed an extensive thrombus that completely occluded the lumen. The treated vessel showed complete endothelial desquamation with exposed subendothelial collagen. The luminal surface of the treated vessel was coated with a monolayer of adherent platelets, but no fibrin formation or erythrocyte thrombus was present.

A significant (greater than 20%) intraluminal thrombus was present in all 10 control vessels, 4 of which were completely occluded, whereas significant thrombus was visible in only 1 of 10 treated vessels. The thrombus:lumen ratio was reduced from 60.2 plus or minus 25.8% in control vessels to 4.1 plus or minus 9.6% in treated vessels.

MECHANISM OF ACTION - None given in the source material.

USE - For treating vascular disorders (claimed), e.g. thrombosis, and for surgical clinical conditions (e.g. endarterectomy, large vessel and microvascular anastomosis, cerebral and systemic venous procedures, arteriovenous shunts, angioplasty, and free flaps) and nonsurgical clinical conditions (e.g. deep-vein thrombosis, cardiac valvular disease and arterial stenosis).

ADVANTAGE - The localized delivery reduces or eliminates side effects of an agent (e.g. heparin) that result from its systemic administration, and high concentrations of agent are provided at the site of action.



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☐ 12. Document ID: US 5779694 A

L7: Entry 12 of 15 File: DWPI Jul 14, 1998

DERWENT-ACC-NO: 1998-412893
DERWENT-WEEK: 200128


TITLE: Drug delivery for specific locations, e.g. the brain for Parkinson or epileptic conditions - has a magnet and drug carrier with semi-automatically controlled electromagnetic positioner and visualisation system

INVENTOR: GILLIES, G T; GRADY, M S ; HOWARD, M A ; MAYBERG, M ; RITTER, R C

PRIORITY-DATA: 1990US-0463340 (January 10, 1990), 1992US-0904032 (June 25, 1992), 1993US-0096214 (July 19, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5779694 A | July 14, 1998 | | 016 | A61M037/00 |

INT-CL (IPC): A61 K 9/22;

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**Search Results** - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20030170747 A1

**Using default format because multiple data bases are involved.**

L8: Entry 1 of 1 File: PGPB Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170747 A1

TITLE: Peripheral marker of blood brain barrier permeability

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Janigro, Damir | St. James Parkway | OH | US | |
| Mayberg, Marc | Chagrin Falls | OH | US | |
| Barnett, Gene | Gates Mills | OH | US | |

US-CL-CURRENT: 435/7.21; 435/7.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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| Terms | Documents |
|---|---|
| Barnett-Gene.IN. | 1 |

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**Search Results** - Record(s) 1 through 24 of 24 returned.

☐ 1. Document ID: US 6708215 B1

**Using default format because multiple data bases are involved.**

L9: Entry 1 of 24 File: DWPI Mar 16, 2004

DERWENT-ACC-NO: 2004-302896
DERWENT-WEEK: 200428
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Outbound customer interaction facilitation method on computer system, involves initiating communication from service provider to user based on trigger event detected related to user activity with respect to retrieved resource

INVENTOR: BARNETT, G ; HINGORANI, S

PRIORITY-DATA: 2000US-0632095 (August 2, 2000), 1998US-0008523 (January 16, 1998)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6708215 B1 | March 16, 2004 | | 015 | G06F013/00 |

INT-CL (IPC): G06 F 13/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 2. Document ID: US 20030170747 A1

L9: Entry 2 of 24 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G ; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

ABSTRACTED-PUB-NO: US20030170747A

BASIC-ABSTRACT:

NOVELTY - Diagnosis of blood brain barrier permeability comprising detecting levels of S100 beta protein in a blood sample of a subject, and comparing the result to S100 beta protein level of a control, is new. An increase in the level of S100 beta protein is indicative of blood brain barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient comprising administering an agent which causes blood brain barrier opening, detecting elevated levels of S100 beta protein in the patient's blood, and administering a therapeutic agent.

USE - For diagnosis of blood brain barrier permeability useful in detecting e.g. neuronal distress (claimed). It is also useful for detecting neurological disorder, e.g. tumors, cancer, degenerative disorders, sensory and motor abnormalities, seizure, infection, immunological disorder, mental disorder, behavioral disorder, and localized central nervous system (CNS) disease.

ADVANTAGE - The method provides a predictable and reliable monitoring of neurological status of a subject.



---

☐ 3. Document ID: EP 1472465 A1, WO 2003067102 A1, AU 2003202079 A1

L9: Entry 3 of 24 File: DWPI Nov 3, 2004

DERWENT-ACC-NO: 2003-646329
DERWENT-WEEK: 200472


TITLE: Shearable fastener, for securing electrical conductors to electrical connectors in form of bolt, has several weakened portions on the shank that shear on application of sufficient torque

INVENTOR: BARNETT, G

PRIORITY-DATA: 2002GB-0002710 (February 6, 2002)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 1472465 A1 | November 3, 2004 | E | 000 | F16B031/02 |
| WO 2003067102 A1 | August 14, 2003 | E | 016 | F16B031/02 |
| AU 2003202079 A1 | September 2, 2003 | | 000 | F16B031/02 |

INT-CL (IPC): F16 B 31/02; F16 B 39/286; F16 B 39/2866; F16 B 39/30; F16 B 39/300; H01 R 4/30; H01 R 4/300

ABSTRACTED-PUB-NO: WO2003067102A
BASIC-ABSTRACT:

NOVELTY - Shearable fastener includes a threaded shank (10) that engages with a threaded bore and a head portion (12) that engages with a drive tool. The shank is formed with a series of axially separated weakenings defining a series of shear planes. Weakenings are formed so that the applied torque necessary to cause the shank to shear increases progressively from shear plane furthest from the head portion to the shear plane nearest the head portion.

DETAILED DESCRIPTION - The weakenings comprise holes, grooves or slits formed in the

shank. The radius at the bottom of the holes, grooves or slits is varied to produce or contribute to the increase in shear torque.

USE - For securing electrical conductors to electrical connectors.

ADVANTAGE - Allows single type of shearable fastener to be used where different lengths are required.

DESCRIPTION OF DRAWING(S) - The drawing shows shearing of the shearable fastener following continued application of torque to the fastener



☐ 4. Document ID: AU 2002222265 A1, WO 200253325 A1, EP 1353781 A1

L9: Entry 4 of 24 File: DWPI Jul 16, 2002

DERWENT-ACC-NO: 2002-537936
DERWENT-WEEK: 200427


TITLE: Driving tool for shearing fasteners such as bolts in electrical connectors for connecting electrical cables using sockets formed for drive tool and bolt

INVENTOR: BARNETT, G ; HOLLICK, D J

PRIORITY-DATA: 2001GB-0000393 (January 6, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| AU 2002222265 A1 | July 16, 2002 | | 000 | B25B023/14 |
| WO 200253325 A1 | July 11, 2002 | E | 016 | B25B023/14 |
| EP 1353781 A1 | October 22, 2003 | E | 000 | B25B023/14 |

INT-CL (IPC):

# Hit List

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**Search Results** - Record(s) 1 through 24 of 24 returned.

☐ 1. Document ID: US 6708215 B1

**Using default format because multiple data bases are involved.**

L9: Entry 1 of 24 File: DWPI Mar 16, 2004

DERWENT-ACC-NO: 2004-302896
DERWENT-WEEK: 200428
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Outbound customer interaction facilitation method on computer system, involves initiating communication from service provider to user based on trigger event detected related to user activity with respect to retrieved resource

INVENTOR: BARNETT, G ; HINGORANI, S

PRIORITY-DATA: 2000US-0632095 (August 2, 2000), 1998US-0008523 (January 16, 1998)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6708215 B1 | March 16, 2004 | | 015 | G06F013/00 |

INT-CL (IPC): G06 F 13/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | ... no ... | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 20030170747 A1

L9: Entry 2 of 24 File: DWPI Sep 11, 2003

DERWENT-ACC-NO: 2004-069019
DERWENT-WEEK: 200410
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TITLE: Detection of blood brain barrier permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in blood samples and comparing the result to a control

INVENTOR: BARNETT, G ; JANIGRO, D ; MAYBERG, M

PRIORITY-DATA: 2001US-0891023 (June 25, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030170747 A1 | September 11, 2003 | | 018 | G01N033/53 |

INT-CL (IPC): G01 N 33/53; G01 N 33/542; G01 N 33/567

ABSTRACTED-PUB-NO: US20030170747A

BASIC-ABSTRACT:

NOVELTY - Diagnosis of blood brain barrier permeability comprising detecting levels of S100 beta protein in a blood sample of a subject, and comparing the result to S100 beta protein level of a control, is new. An increase in the level of S100 beta protein is indicative of blood brain barrier permeability.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient comprising administering an agent which causes blood brain barrier opening, detecting elevated levels of S100 beta protein in the patient's blood, and administering a therapeutic agent.

USE - For diagnosis of blood brain barrier permeability useful in detecting e.g. neuronal distress (claimed). It is also useful for detecting neurological disorder, e.g. tumors, cancer, degenerative disorders, sensory and motor abnormalities, seizure, infection, immunological disorder, mental disorder, behavioral disorder, and localized central nervous system (CNS) disease.

ADVANTAGE - The method provides a predictable and reliable monitoring of neurological status of a subject.



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☐ 3. Document ID: EP 1472465 A1, WO 2003067102 A1, AU 2003202079 A1

L9: Entry 3 of 24 File: DWPI Nov 3, 2004

DERWENT-ACC-NO: 2003-646329
DERWENT-WEEK: 200472


TITLE: Shearable fastener, for securing electrical conductors to electrical connectors in form of bolt, has several weakened portions on the shank that shear on application of sufficient torque

INVENTOR: BARNETT, G

PRIORITY-DATA: 2002GB-0002710 (February 6, 2002)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 1472465 A1 | November 3, 2004 | E | 000 | F16B031/02 |
| WO 2003067102 A1 | August 14, 2003 | E | 016 | F16B031/02 |
| AU 2003202079 A1 | September 2, 2003 | | 000 | F16B031/02 |

INT-CL (IPC): F16 B 31/02; F16 B 39/286; F16 B 39/2866; F16 B 39/30; F16 B 39/300; H01 R 4/30; H01 R 4/300

ABSTRACTED-PUB-NO: WO2003067102A
BASIC-ABSTRACT:

NOVELTY - Shearable fastener includes a threaded shank (10) that engages with a threaded bore and a head portion (12) that engages with a drive tool. The shank is formed with a series of axially separated weakenings defining a series of shear planes. Weakenings are formed so that the applied torque necessary to cause the shank to shear increases progressively from shear plane furthest from the head portion to the shear plane nearest the head portion.

DETAILED DESCRIPTION - The weakenings comprise holes, grooves or slits formed in the

shank. The radius at the bottom of the holes, grooves or slits is varied to produce or contribute to the increase in shear torque.

USE - For securing electrical conductors to electrical connectors.

ADVANTAGE - Allows single type of shearable fastener to be used where different lengths are required.

DESCRIPTION OF DRAWING(S) - The drawing shows shearing of the shearable fastener following continued application of torque to the fastener



☐ 4. Document ID: AU 2002222265 A1, WO 200253325 A1, EP 1353781 A1

L9: Entry 4 of 24 File: DWPI Jul 16, 2002

DERWENT-ACC-NO: 2002-537936
DERWENT-WEEK: 200427


TITLE: Driving tool for shearing fasteners such as bolts in electrical connectors for connecting electrical cables using sockets formed for drive tool and bolt

INVENTOR: BARNETT, G ; HOLLICK, D J

PRIORITY-DATA: 2001GB-0000393 (January 6, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| AU 2002222265 A1 | July 16, 2002 | | 000 | B25B023/14 |
| WO 200253325 A1 | July 11, 2002 | E | 016 | B25B023/14 |
| EP 1353781 A1 | October 22, 2003 | E | 000 | B25B023/14 |

INT-CL (IPC): B25 B 23/14

ABSTRACTED-PUB-NO: WO 200253325A
BASIC-ABSTRACT:

NOVELTY - A drive unit comprises upper and lower parts (11,12) and a socket (13) for a half-inch square drive tool formed at the upper part, while a lower socket (14) can receive a bolt head. The retaining assembly comprises a cylindrical body (23) with a flange (24) and extending through a friction disc (22) and a friction washer (25). The drive unit is connected to a bolt in an electrical connector and is rotated by a drive tool fitted into the socket (13).

USE - Mechanical and electrical connection of electrical cables to electrical connectors.

DESCRIPTION OF DRAWING(S) - The drawing shows the drive unit

Sockets 13,14

Body 23

Friction disc 22

Friction washer 25

☐ 5. Document ID: WO 200218803 A1, AU 200179969 A, EP 1334281 A1

L9: Entry 5 of 24 File: DWPI Mar 7, 2002

DERWENT-ACC-NO: 2002-269585
DERWENT-WEEK: 200464


TITLE: A shearable bolt for mechanical and electrical connection of electrical cables to connectors includes a threaded shank connected by a narrow neck to a hexagonal head, and a central hexagonal blind bore filled with a tough material

INVENTOR: BARNETT, G ; HOLLICK, D J

PRIORITY-DATA: 2000GB-0021277 (August 31, 2000)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 200218803 A1 | March 7, 2002 | E | 017 | F16B031/02 |
| AU 200179969 A | March 13, 2002 | | 000 | F16B031/02 |
| EP 1334281 A1 | August 13, 2003 | E | 000 | F16B031/02 |

INT-CL (IPC): F16 B 31/02

ABSTRACTED-PUB-NO: WO 200218803A
BASIC-ABSTRACT:

NOVELTY - A shearable bolt (10) has an externally threaded shank (11) connected by a narrow neck (12) to a hexagonal head (13). A central, hexagonal blind bore (14) extends through the head, past the neck and a short distance into the shank. The bore is filled with a plug (15) of tough elastomeric or soft material. When a torque applied to the head exceeds a shearing torque, the neck yields quite suddenly, but torsion of the plug retards acceleration and restrains further movement.

USE - The shearable bolt is used for mechanical and electrical connection of electrical cables to connectors.

ADVANTAGE - The shearable bolt avoids damage to muscles and other tissues of a person's arm, or impact with nearby obstructions at the point of sudden yielding of the neck. Risk of injury to the user is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows a side view, in section, of a shearable bolt.

Shearable bolt 10

Threaded shank 11

Narrow neck 12

Hexagonal head 13

Central, hexagonal blind bore 14

Tough elastomeric or soft material 15

☐ 6. Document ID: US 20030050884 A1, WO 200173654 A1, AU 200149407 A

L9: Entry 6 of 24 File: DWPI Mar 13, 2003

DERWENT-ACC-NO: 2001-626288
DERWENT-WEEK: 200321


TITLE: Transaction security management method for financial assets, involves establishing business platform and producing selling agreements using receivables record for each business entity

INVENTOR: BARNETT, G

PRIORITY-DATA: 2000US-191901P (March 24, 2000), 2002US-0239773 (September 24, 2002)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030050884 A1 | March 13, 2003 | | 000 | G06F017/60 |
| WO 200173654 A1 | October 4, 2001 | E | 041 | G06F017/60 |
| AU 200149407 A | October 8, 2001 | | 000 | G06F017/60 |

INT-CL (IPC): G06 F 17/60

ABSTRACTED-PUB-NO: WO 200173654A
BASIC-ABSTRACT:

NOVELTY - A business entity is chartered to acquire or finance receivables of members belonging to a group of competing independent buyer/obligator companies. Offers are extended from business entity to holders of receivables. Receivable record representing payment details is output by the entity. Based on the record, business platform is established and agreement for selling companies is produced. The selling is initiated using the receivables.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for computer system.

USE - For managing transaction and financial assets security in financial applications and other business services.

ADVANTAGE - Enables finance companies to finance for assets more efficiently by offering aggregated loans, independently. Improves financial debt management, due to co-operative consultations between entities and obligor companies.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of parties and cash flows in a transaction.

Full | Title | Citation | Front | Review | Classification | Date | Reference | no | Claims | KWIC | Draw. Des

☐ 7. Document ID: US 6699062 B1, GB 2356296 A, WO 200135495 A1, AU 200111633 A, BR 200015452 A, EP 1228553 A1, EP 1228553 B1, GB 2356296 B, AU 760318 B, DE 60002753 E, ES 2197122 T3

L9: Entry 7 of 24 File: DWPI Mar 2, 2004

DERWENT-ACC-NO: 2001-411456
DERWENT-WEEK: 200417


TITLE: Insulation piercing fastener for electrical conductor has cylindrical shank that has diametrically opposed interruptions in wall of axial bore

INVENTOR: BARNETT, G ; HOLLICK, D J ; KIRKMAN, M D

PRIORITY-DATA: 1999GB-0026519 (November 10, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6699062 B1 | March 2, 2004 | | 000 | H01R011/20 |
| GB 2356296 A | May 16, 2001 | | 016 | H01R004/24 |
| WO 200135495 A1 | May 17, 2001 | E | 000 | H01R004/24 |
| AU 200111633 A | June 6, 2001 | | 000 | H01R004/24 |
| BR 200015452 A | July 9, 2002 | | 000 | H01R004/24 |
| EP 1228553 A1 | August 7, 2002 | E | 000 | H01R004/24 |
| EP 1228553 B1 | May 14, 2003 | E | 000 | H01R004/24 |
| GB 2356296 B | May 28, 2003 | | 000 | H01R004/24 |
| AU 760318 B | May 15, 2003 | | 000 | H01R004/24 |
| DE 60002753 E | June 18, 2003 | | 000 | H01R004/24 |
| ES 2197122 T3 | January 1, 2004 | | 000 | H01R004/24 |

INT-CL (IPC): H01 R 4/24; H01 R 4/26; H01 R 11/20

ABSTRACTED-PUB-NO: GB 2356296A
BASIC-ABSTRACT:

NOVELTY - The bore (2) is extended for full length of cylindrical and external threaded shank. The bore has hexagonal cross section at upper end and circular cross section at lower end. The diametrically opposed interruptions are formed in the wall of the board. The diameter of shank is set as 6-30 mm. The width and depth of interruption is set as 0.5-5 mm and 0.5-20 mm respectively.

DETAILED DESCRIPTION - The shank is made to contact the connector. An INDEPENDENT CLAIM is also included for electrical connector.

USE - For establishing connection between conductor and fastener.

ADVANTAGE - Enables efficient usage in conductors having solid cover, and plastic insulation and conductors having stranded cores and mineral oil impregnated paper insulation. Maintains excellent electrical contact state by increasing contact area between tip of fastener and conductor. Simplifies manufacture of shank.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective and schematic view of fastener.

Bore 2



☐ 8. Document ID: ES 2204499 T3, WO 200046878 A1, AU 200023066 A, EP 1161778 A1, CN 1339185 A, US 6402544 B1, ZA 200106957 A, AU 755568 B, EP 1161778 B1, DE 60004333 E

DERWENT-ACC-NO: 2000-579004
DERWENT-WEEK: 200431


TITLE: Electrical connector for connecting service cable to line main cable, shears spindle at position between shroud opening and engagement tip of connecting bolt to withdraw cap and residual portion of spindle

INVENTOR: BARNETT, G

PRIORITY-DATA: 1999GB-0002358 (February 4, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| ES 2204499 T3 | May 1, 2004 | | 000 | H01R004/24 |
| WO 200046878 A1 | August 10, 2000 | E | 017 | H01R004/24 |
| AU 200023066 A | August 25, 2000 | | 000 | |
| EP 1161778 A1 | December 12, 2001 | E | 000 | H01R004/24 |
| CN 1339185 A | March 6, 2002 | | 000 | H01R004/24 |
| US 6402544 B1 | June 11, 2002 | | 000 | H01R004/24 |
| ZA 200106957 A | October 30, 2002 | | 024 | H01R000/00 |
| AU 755568 B | December 19, 2002 | | 000 | H01R004/24 |
| EP 1161778 B1 | August 6, 2003 | E | 000 | H01R004/24 |
| DE 60004333 E | September 11, 2003 | | 000 | H01R004/24 |

INT-CL (IPC): H01 R 0/00; H01 R 4/24

ABSTRACTED-PUB-NO: US 6402544B
BASIC-ABSTRACT:

NOVELTY - Connector (1) with insulating plastic shroud (12), has threaded bore (4) to engage bolt (5) connected to conductor (3) in socket. Drive spindle (7) extending via shroud opening to rotary insulator cap (10) shears at position between opening and contact point of spindle and bolt, when preset torque is applied to spindle to withdraw cap and residual portion (8) from opening which is closed after withdrawal.

DETAILED DESCRIPTION - The plastic shroud is formed with number of leaves which are resiliently deformed by the drive spindle, which relax to cover the opening of the threaded bore when the drive spindle shears and is removed with the cap. The connector is made of electrically conducting material like aluminum or brass and the cap is made of an insulating material.

USE - For connecting service cable to existing line main cables.

ADVANTAGE - Reduces the risk of exposure of an operator to electrically line surfaces during the fitting of the connector, even to an electrically live conductor. After installation, the insulated mechanism bulk can be removed without exposing live metalwork, thus reducing the volume of encapsulant required without compromising the safety of installer. Also it is simple to use, and of compact design.

DESCRIPTION OF DRAWING(S) - The figure shows the fragmentary side view in section of an electrical connector.

Connector 1

Conductor 3

Threaded bore 4

Bolt 5

Drive spindle 7

Residual portion 8

Rotary insulator cap 10

Insulating plastic shroud 12
ABSTRACTED-PUB-NO:

WO 200046878A EQUIVALENT-ABSTRACTS:

NOVELTY - Connector (1) with insulating plastic shroud (12), has threaded bore (4) to engage bolt (5) connected to conductor (3) in socket. Drive spindle (7) extending via shroud opening to rotary insulator cap (10) shears at position between opening and contact point of spindle and bolt, when preset torque is applied to spindle to withdraw cap and residual portion (8) from opening which is closed after withdrawal.

DETAILED DESCRIPTION - The plastic shroud is formed with number of leaves which are resiliently deformed by the drive spindle, which relax to cover the opening of the threaded bore when the drive spindle shears and is removed with the cap. The connector is made of electrically conducting material like aluminum or brass and the cap is made of an insulating material.

USE - For connecting service cable to existing line main cables.

ADVANTAGE - Reduces the risk of exposure of an operator to electrically line surfaces during the fitting of the connector, even to an electrically live conductor. After installation, the insulated mechanism bulk can be removed without exposing live metalwork, thus reducing the volume of encapsulant required without compromising the safety of installer. Also it is simple to use, and of compact design.

DESCRIPTION OF DRAWING(S) - The figure shows the fragmentary side view in section of an electrical connector.

Connector 1

Conductor 3

Threaded bore 4

Bolt 5

Drive spindle 7

Residual portion 8

Rotary insulator cap 10

Insulating plastic shroud 12



☐ 9. Document ID: GB 2346490 B, GB 2346490 A

L9: Entry 9 of 24 File: DWPI Oct 9, 2002

DERWENT-ACC-NO: 2000-551337
DERWENT-WEEK: 200267


TITLE: Electrical connector for live electrical connector uses socket for electrical conductor with body with electrically insulating shroud and threaded bore for engaging bolt which engages with conductor inserted into socket

INVENTOR: BARNETT, G

PRIORITY-DATA: 1999GB-0000235 (February 4, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| GB 2346490 B | October 9, 2002 | | 000 | H01R004/70 |
| GB 2346490 A | August 9, 2000 | | 015 | H01R004/70 |

INT-CL (IPC): H01 R 4/24; H01 R 4/36; H01 R 4/70

ABSTRACTED-PUB-NO: GB 2346490A
BASIC-ABSTRACT:

NOVELTY - Connector has a body with a socket for an electrical conductor, an electrically insulating shroud and a threaded bore for engaging a connecting bolt (5) which engages with the conductor in the socket using a drive member engaged with the bolt and extending through an opening in the insulating shroud to a rotatable electrically insulating cap. The drive shears when a preset torque is applied to it.

USE - As a connector for a live electrical connector.

ADVANTAGE - Provides for satisfactory insulation during and after installation and asociated mechanisms are minimal size decreasing encapsulation costs.

DESCRIPTION OF DRAWING(S) - The drawing shows a fragmentary side view in section of the electrical connector in the first stage of use.

the bolt engaging in the threaded bore 5
ABSTRACTED-PUB-NO:

GB 2346490B EQUIVALENT-ABSTRACTS:

NOVELTY - Connector has a body with a socket for an electrical conductor, an electrically insulating shroud and a threaded bore for engaging a connecting bolt (5) which engages with the conductor in the socket using a drive member engaged with the bolt and extending through an opening in the insulating shroud to a rotatable electrically insulating cap. The drive shears when a preset torque is applied to it.

USE - As a connector for a live electrical connector.

ADVANTAGE - Provides for satisfactory insulation during and after installation and asociated mechanisms are minimal size decreasing encapsulation costs.

DESCRIPTION OF DRAWING(S) - The drawing shows a fragmentary side view in section of the electrical connector in the first stage of use.

the bolt engaging in the threaded bore 5

☐ 10. Document ID: US 5859964 A

L9: Entry 10 of 24 File: DWPI Jan 12, 1999

DERWENT-ACC-NO: 1999-120240
DERWENT-WEEK: 199910


TITLE: Processing tool fault detection system in semiconductor wafer fabrication - provides sample of process parameter signals acquired during operation of processing tool to model and receives generated prediction error based on which fault in processing tool is detected

INVENTOR: BARNETT, G ; CHENG, Y ; GREIG, R M ; WANG, Q

PRIORITY-DATA: 1996US-0736919 (October 25, 1996)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 5859964 A | January 12, 1999 | | 027 | G06F011/00 |

INT-CL (IPC): G06 F 11/00

ABSTRACTED-PUB-NO: US 5859964A
BASIC-ABSTRACT:

The system includes a receiving unit which receives process event signals (16) generated by a processing tool of process equipment. The process event signals comprise one event from group comprising wafer start, wafer ends, new lot, new recipe and alarm. The data acquisition device acquires sample of process parameter signals (18) during operation of the processing tool. The model (60a) uses reference database (58) to generate prediction error in response to acquired sample of process parameter signals. The model also receives recipe identifier specified via user input and generates corresponding prediction error.

The model is chosen from group containing universal process model, a principal component analysis model and neural network. A data viewer (64) displays the acquired sample. A report browser (62) displays prediction error. A fault detector (50) is provided in communication with the model (60a) for receiving sample from the data acquisition device and process event signals. The fault detector provides sample to the model and receive prediction error generated by the model based on which fault in process tool is detected.

ADVANTAGE - Avoids wafer scrap and improves mean time between failures. Uses process event information in combination with process parameter signal samples to perform improved fault detection. Facilitates modular selection of models for particular fabrication process.


☐ 11. Document ID: WO 9737379 A1

L9: Entry 11 of 24 File: DWPI Oct 9, 1997

DERWENT-ACC-NO: 1997-503359
DERWENT-WEEK: 199746

TITLE: In-situ sensor for measuring deposition of etching chamber walls - has laser source and detector located external to etch chamber, with detector sensing intensity of laser beam reflected from inner wall of etching chamber

INVENTOR: BARNETT, G ; TOPRAE, A J

PRIORITY-DATA: 1996US-0627861 (April 3, 1996)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 9737379 A1 | October 9, 1997 | E | 017 | H01L021/66 |

INT-CL (IPC): H01 L 21/66

ABSTRACTED-PUB-NO: WO 9737379A
BASIC-ABSTRACT:

The sensor comprises a laser source (122) positioned external to the etching chamber (110) for directing a laser beam (126) toward and through an etching chamber window to a point (130) at an inner wall (114) of the etching chamber. A laser detector (124) is positioned external to the etching chamber and directed toward the etching chamber window to the point at the inner wall of the etching chamber for detecting an intensity of the laser beam reflected from the interior surface of the etching chamber. A recorder (160) is coupled to the laser detector for recording the intensity of the reflected laser beam (131) over time.

A chopper (140) is positioned between the laser source and the etching chamber along the directed beam for interrupting the laser beam at regular interval. The system may also include a semi-transparent mirror (142) that is positioned between the laser source and the etch chamber along the directed beam axis for deflecting a portion of the energy of the laser beam a controlled reflection angle (144) so that a deflected beam (146) is deflected to a calibration detector (150).

USE - In integrated circuit manufacture.

ADVANTAGE - Mis-processing of semiconductor wafers due to substandard excitation of plasma in etch chamber as result of deposits on chamber walls is avoided. Wafer contamination due to particulates is prevented. Stop etch problems are avoided.



☐ 12. Document ID: WO 9501585 A1, US 5653063 A, AU 9470039 A, GB 2289135 A, EP 706675 A1, JP 09502537 W

L9: Entry 12 of 24 File: DWPI Jan 12, 1995

DERWENT-ACC-NO: 1995-061111
DERWENT-WEEK: 199737


TITLE: Photographic booth for use in public locations - has housing for photographic equipment plus chamber having folding seat and arcuate door, for access of user, controlled in response to detected passage of door

INVENTOR: BARNETT, G ; TEMPLE, A

PRIORITY-DATA: 1994GB-0007172 (April 12, 1994), 1993GB-0013454 (June 30, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 9501585 A1 | January 12, 1995 | E | 016 | G03B017/53 |
| US 5653063 A | August 5, 1997 | | 008 | G03B017/53 |
| AU 9470039 A | January 24, 1995 | | 000 | G03B017/53 |
| GB 2289135 A | November 8, 1995 | | 015 | G03B017/53 |
| EP 706675 A1 | April 17, 1996 | E | 016 | G03B017/53 |
| JP 09502537 W | March 11, 1997 | | 017 | G03B017/53 |

INT-CL (IPC): G03 B 17/53

ABSTRACTED-PUB-NO: US 5653063A
BASIC-ABSTRACT:

The booth (2) includes an upright housing (2) for photographic equipment abutting a circular chamber (4). The chamber has an opening on the opposite side to the housing. A ramp adjacent the opening leads up to the floor of the chamber and an arcuate door (6) is provided to open and close the opening.

A seat is provided within the chamber which may be folded down to enable users to be seated during photography. Four circumferentially spaced detectors determine the position of the trailing edge of the door and are used to control the speed and direction of the motor which is initially energised by insertion of a coin. A photodetector may be mounted on the door edge to stop its movement on detection of obstructions.

USE/ADVANTAGE - Is designed for taking passport-type photographs. Used folded seat enables access to wheelchairs and arcuate door provides more privacy.
ABSTRACTED-PUB-NO:

WO 9501585A EQUIVALENT-ABSTRACTS:

A photographic booth comprising:

a chamber to be occupied by a user and defining an opening on one side thereof providing access to the user;

a photographic apparatus mounted on a side opposite said opening and directed into the chamber; and

a seat located between the apparatus and the opening for use by the user.



☐ 13. Document ID: GB 2279462 A, US 5653063 A, WO 9501586 A1, AU 9470776 A, EP 657041 A1

L9: Entry 13 of 24 File: DWPI Jan 4, 1995

DERWENT-ACC-NO: 1995-054321
DERWENT-WEEK: 199737


TITLE: Photographic booth for able-bodied or disabled users - includes rotary doors, screens, blinds or shutters for access, security or background use, with motorised drive

INVENTOR: TEMPLE, A; BARNETT, G

PRIORITY-DATA: 1993GB-0013454 (June 30, 1993), 1994GB-0007172 (April 12, 1994)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| GB 2279462 A | January 4, 1995 | | 010 | G03B017/53 |
| US 5653063 A | August 5, 1997 | | 008 | G03B017/53 |
| WO 9501586 A1 | January 12, 1995 | E | 012 | G03B017/53 |
| AU 9470776 A | January 24, 1995 | | 000 | G03B017/53 |
| EP 657041 A1 | June 14, 1995 | E | 010 | G03B017/53 |

INT-CL (IPC): G03 B 17/53

ABSTRACTED-PUB-NO: GB 2279462A
BASIC-ABSTRACT:

The booth is accessible by wheelchair users. Activation of the door is via. compressed air and a spring housed in the roof. The door foot rests in a nylon brush enclosed channel.

Being secure as when inoperative, the doors rotate, concealing both the photographic equipment and the cash box. Should the occupant violate the integrity of either photographic equipment or coin box, the booth will lock and alarm will sound.

USE - Photo-booth which affords easy access for both able-bodied and disabled users by way of motorised doors.
ABSTRACTED-PUB-NO:

US 5653063A EQUIVALENT-ABSTRACTS:

A photographic booth comprising:

a chamber to be occupied by a user and defining an opening on one side thereof providing access to the user;

a photographic apparatus mounted on a side opposite said opening and directed into the chamber; and

a seat located between the apparatus and the opening for use by the user.



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☐ 14. Document ID: US 4960592 A

L9: Entry 14 of 24 File: DWPI Oct 2, 1990

DERWENT-ACC-NO: 1990-319790
DERWENT-WEEK: 199042


TITLE: Anhydrous skin treatment compsn. - comprising 10-90 per cent lanolin and 90-100 per cent lanolin oil is hypo=allergenic and is useful for treating dry skin

INVENTOR: BARNETT, G ; HAGEN, R

PRIORITY-DATA: 1989US-0338673 (April 17, 1989)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 4960592 A | October 2, 1990 | | 000 | |

INT-CL (IPC): A61K 7/48; A61K 35/36

ABSTRACTED-PUB-NO: US 4960592A
BASIC-ABSTRACT:

Anhydrous skin treatment compsn. comprises (by wt.) 10-90 % of lanolin (I), and 90-10 % of lanolin oil (II).

Pref. compsns. comprise (by wt.) 50-90 % esp. ca 75% (I); and 50-10 % esp. ca 25% (II). The pref. compsns. are hypoallergenic.

(II) (ca 25%) was added to (I) (ca 75%) at e.g. 50 deg.C, and the blend was cooled to room temp.

ADVANTAGE - The anhydrous, lanolin-based skin treatment, emollient compsn. is aesthetically acceptable, is hypoallergenic, and is useful for the treatment of dry skin.



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☐ 15. Document ID: DE 3941524 A, DE 3941524 C2, FR 2640647 A, GB 2229194 A, GB 2229194 B, IT 1238351 B, JP 02217431 A, US 4964920 A

L9: Entry 15 of 24 File: DWPI Jun 21, 1990

DERWENT-ACC-NO: 1990-194598
DERWENT-WEEK: 199026


TITLE: Soln. for removing masking coating of tin, lead, or tin-lead alloy - from copper base using aq. soln. of nitric acid, iron nitrate and anthranile acid to reduce degree of attack on copper

INVENTOR: BARNETT, G ; JACKSON, B

PRIORITY-DATA: 1988GB-0029253 (December 15, 1988), 1989GB-0028313 (December 14, 1989), 1989US-0451054 (December 15, 1989)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| DE 3941524 A | June 21, 1990 | | 000 | |
| DE 3941524 C2 | October 7, 1993 | | 006 | C23F001/44 |
| FR 2640647 A | June 22, 1990 | | 000 | |
| GB 2229194 A | September 19, 1990 | | 000 | |
| GB 2229194 B | May 5, 1993 | | 000 | C23F001/18 |
| IT 1238351 B | July 13, 1993 | | 000 | C22B000/00 |
| JP 02217431 A | August 30, 1990 | | 000 | |
| US 4964920 A | October 23, 1990 | | 000 | |

INT-CL (IPC): C09K 13/06; C22B 15/14; C23F 1/18; C23F 1/44; C23F 4/00; C23G 1/10; C23G 5/00; H05K 3/26

ABSTRACTED-PUB-NO: DE 3941524A

BASIC-ABSTRACT:

Compsn. used to remove a coating of Sn, Pb or Sn-Pb alloy from a Cu substrate contains nitric acid, iron nitrate and anthranile acid.

USE/ADVANTAGE - To remove a masking layer applied to a Cu substrate prior to preferentially etching. The substrate is pref. a conductor plate. The addn. of anthranile acid reduces the deg. of attack on the Cu substrate.
ABSTRACTED-PUB-NO:

DE 3941524C EQUIVALENT-ABSTRACTS:

A layer of a metal from the gp. Sn, Pb and Sn/Pb alloy is removed from a Cu, or Cu alloy substrate, partic. the solder film is removed from a circuit board, by an aq. soln. of 100-300 ml/l HNO3 measured as 69 wt.% aq. HNO3 soln., 30-140 g/l Fe (III) nitrate, in the form of (Fe(NO3)3.9H2O, and 1-30 g/l anthranilic acid.A tenside may be added.

ADVANTAGE - Removes solder without damaging the substrate.

GB 2229194B

A composition for removing a layer of a metal which is tin, lead, tin/copper or a tin/lead alloy from a copper substrate, the composition comprising an aqueous solution of nitric acid, ferric nitrate and anthranilic acid.

US 4964920A

Selective etchant compsn. for removing layers or Sn, Pb or Sn/Pb alloy from a copper substrate comprises an aq. soln. contg.

HNO3 (69wt.%; 100-300 cm3, diluted to 1 dm3) and Fe(NO3)3 . 9H2O (about 30-140 g/dm3) as etchants; and also anthranilic acid (about 1-30 g/dm3) to inhibit the dissolution of Cu, and pref. surfactants, e.g., cocoamine and ethoxylated fatty alcohols (each about 0.1-5.0 g/dm3). USE - The prods. remove solder from printed board circuits without damage to the copper circuitry.

(5pp)



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☐ 16. Document ID: GB 2198705 A, GB 2198705 B

L9: Entry 16 of 24 File: DWPI Jun 22, 1988

DERWENT-ACC-NO: 1988-169721
DERWENT-WEEK: 198825


TITLE: Display-sales package of window type - has ends of flap forming wings which distort and hook behind board when flap is pushed through slit

INVENTOR: BARNETT, G

PRIORITY-DATA: 1986GB-0027011 (November 12, 1986), 1987GB-0026501 (November 12, 1987)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| GB 2198705 A | June 22, 1988 | | 009 | |

GB 2198705 B August 29, 1990 000

INT-CL (IPC): B65D 33/14; B65D 73/00

ABSTRACTED-PUB-NO: GB 2198705A
BASIC-ABSTRACT:

The display-sales package has a transparent bag (10) to which is secured a saddle header (11). The rear side of this has a flap (17) cut from it, remaining attached e.g along the fold line of the header, although with slits (18,19,21) or weaknesses.

The ends of the flap form wings (20). When the flap is pushed through a slit with skew ends in a mounting boards, the wings distort and then revert to hook behind the board, thus holding the package. The latter can be removed by pulling, which tears off the flap. The front side of the header pref. has an Euro-hole (13).

USE - Bag or package with transparent window and suspension device attached to upper edge.
ABSTRACTED-PUB-NO:

GB 2198705B EQUIVALENT-ABSTRACTS:

A package comprising a bag or envelope to hold one or more objects for sale, and a suspension device for the bag comprises a folded sheet or card having two portions connected by a fold line remote from the bag or envelope, the portions being stapled or otherwise attached to the bag, wherein a flap is cut from one portion but remains attached to the card along a weakened part of the fold line, the flap extending beyond each end of said weakened part and thereby having wings to allow the flap to be inserted through a slit in a mounting board, to be then retained by the wings, and to be subsequently removed frmo the board by tearing along said weakened part.



☐ 17. Document ID: GB 2192583 A, GB 2192583 B

L9: Entry 17 of 24 File: DWPI Jan 20, 1988

DERWENT-ACC-NO: 1988-016298
DERWENT-WEEK: 198803


TITLE: Sheet with several gift cards - has weakness lines between cards, with fold lines incorporated for compactness

INVENTOR: BARNETT, G

PRIORITY-DATA: 1986GB-0014996 (June 19, 1986), 1987GB-0014417 (June 19, 1987)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| GB 2192583 A | January 20, 1988 | | 000 | |
| GB 2192583 B | March 14, 1990 | | 000 | |

INT-CL (IPC): B42D 15/02

ABSTRACTED-PUB-NO: GB 2192583A
BASIC-ABSTRACT:

The sheet is formed with lines of weakness in grid fashion so that individual cards can be manually detached and folded The complete sheet has a foldability, using some of the lines, enabling one side of the folded sheet ot display faces only of individual cards. The sheet folded in this manner may be transparently packaged for display and sale purposes.

When the sheet is so folded, the face of at least one card may overlie the back of another card whose face is then presented alongside the face of the one card. The sheet will normally be printed on one side only but at least a portion of the sheet may be folded to triple the initial thickness and this will enable any initially-spaced faces of the careds to be brought close together.

ADVANTAGE - The cards are arranged so that a variety can be visible to the buyer in a larger than usual package.
ABSTRACTED-PUB-NO:

GB 2192583B EQUIVALENT-ABSTRACTS:

A multi-card sheet comprising a plurality of cards each with portions separated by a fold line and a face on one said portion, wherein the sheet has the faces all on one side and is formed i with lines of weakness in grid fashion so that individual cards can be manually detached and folded, the complete sheet having a foldability, using some of said lines, enabling one side of the folded sheet to display faces only of individual cards.



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☐ 18. Document ID: WO 8300487 A, AU 8287399 A, DE 3248945 T, JP 58501232 W, JP 92038762 B, US 4481306 A

L9: Entry 18 of 24 File: DWPI Feb 17, 1983

DERWENT-ACC-NO: 1983-20000K
DERWENT-WEEK: 198308


TITLE: Radiation grafted fluoro:polymer useful in permselective membranes - mfd. by grafting (non) functional monomers onto per:halogenated fluorine-contg. polymeric substrate

INVENTOR: BARNETT, G ; MARKUS, M

PRIORITY-DATA: 1981AU-0000111 (August 7, 1981)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 8300487 A | February 17, 1983 | E | 022 | |
| AU 8287399 A | February 22, 1983 | | 000 | |
| DE 3248945 T | November 3, 1983 | | 000 | |
| JP 58501232 W | July 28, 1983 | | 000 | |
| JP 92038762 B | June 25, 1992 | | 007 | C08F259/08 |
| US 4481306 A | November 6, 1984 | | 000 | |

INT-CL (IPC): B01J 1/00; B01J 39/18; B01J 39/20; C08F 2/54; C08F 8/00; C08F 214/18; C08F 216/16; C08F 259/08; C08F 261/06; C08J 5/22; C08J 7/18; C08L 51/00; C25B 1/46; C25B 13/08

ABSTRACTED-PUB-NO: WO 8300487A

BASIC-ABSTRACT:

Process for prodn. of a cation exchange resin comprises radiation grafting with copolymerisation onto a perhalogenated fluorine-contg. polymeric skeletal substrate at least one functional monomer chosen from CF2=CF(CF2)nA (I) and CF2=CF-O-(CFX-CFX) mA (II) in which A is carboxyl, 1-6C alkoxycarbonyl, hydroxy-1-6 C alkoxy-carbonyl, CN, hydroxysulphonyl, fluorosulphonyl or a gp. -CONR1R2 in which R1 and R2 are independently chosen from H and 1-6 C alkyl, one X is F and the other X is Cl, F or CF3, n= 0-12, amd m=1-3; together with at least one non-functional linking monomer chosen from cpds. CF2=CFY (III) in which Y is Cl, F or CF3.

Pref. the backbone polymer is a (co)polymer of a fluorinated ethylene such as tetrafluoroethylene, or chlorotrifluorethylene homopolymers or a copolymer of tetrafluoroethylene with 3.5-12.5 wt.% hexafluoropropylene. The functional monomers (I) and (II) are e.g. pentafluorobutenoic acid (IV) 1-6C alkyl pentafluorobutenoates and trifluorovinylsulphony fluoride. The non-functional monomer (III) is pref. TFE or chlorotrifluoroethylene. Pref. the mol. ratio functional monomer to non-functional monomer is in the range 9:1-1:20, esp. 4:1 to 1:4 and partic. 2:1 to 1:2.

The polymers are esp. useful in the prodn. of permselective membranes in electrolytic cells such as those used in the mfr. of alkali metal hydroxide solns. and chlorine.
ABSTRACTED-PUB-NO:

US 4481306A EQUIVALENT-ABSTRACTS:

Prepn. of a cation exchange resin comprises radiation grafting with copolymerisation onto a perhalogenated F-contg. hydrocarbon polymeric skeleton, a functional monomer of formula:

CF2=CF(CF2)nA or

CF2=CF-O-(CFX-CFX)mA

together with a non-functional linking monomer of formula:

CF2=CFY

in the presence of a pooymerisation inhibitor and a chain transfer agent. Mol. ratio of functional monomer to nonfunctional linking monomer is 9:1-1:20. At least 40.7% grafting is accomplished.

In the formulae, A is carboxy or 1-6C alkoxycarbonyl; one X is F and the other X is Cl, F or CF3; n is 0-12; m is 1-3; and y is Cl, F or CF3.

USE/ADVANTAGE - For moulding into membranes. Useful as permselective membranes in (chlor-alkali) electrolysis cells, and as separators and solid electrolytes in fuel cells and batteries. The resin has enhanced wettability. (6pp)



☐ 19. Document ID: WO 8300157 A, AU 8285876 A, DD 209639 A, EP 82166 A, IT 1212529 B, JP 58501038 W, JP 91004627 B, NO 8300666 A, US 4506035 A, ZA 8204471 A

L9: Entry 19 of 24 File: DWPI Jan 20, 1983

DERWENT-ACC-NO: 1983-12150K
DERWENT-WEEK: 198305


TITLE: Hydrophilic fluoro:polymeric porous diaphragm for chlor:alkali cell - made by co-grafting a mixt. of functional and non-functional monomers onto a fluorine contg.

polymeric substrate

INVENTOR: BARNETT, G ; MARKUS, M V

PRIORITY-DATA: 1981AU-0009455 (June 26, 1981)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 8300157 A | January 20, 1983 | E | 035 | |
| AU 8285876 A | February 2, 1983 | | 000 | |
| DD 209639 A | May 16, 1984 | | 000 | |
| EP 82166 A | June 29, 1983 | E | 000 | |
| IT 1212529 B | November 30, 1989 | | 000 | |
| JP 58501038 W | June 30, 1983 | | 000 | |
| JP 91004627 B | January 23, 1991 | | 000 | |
| NO 8300666 A | April 25, 1983 | | 000 | |
| US 4506035 A | March 19, 1985 | | 000 | |
| ZA 8204471 A | March 1, 1983 | | 000 | |

INT-CL (IPC): C05B 13/08; C08F 8/00; C08F 259/08; C08J 5/20; C08J 7/18; C08J 9/36; C25B 13/08

ABSTRACTED-PUB-NO: WO 8300157A
BASIC-ABSTRACT:

A hydrophilic fluoropolymeric microporous diaphragm comprises a fluorine-contg. polymeric substrate to which has been radiation co-grafted a mixt. of monomers comprising (A) at least one functional monomer chosen from cpds. CF2=CF(CF2)nA (I) and CF2=CF-O-(CFX-CFX)mA (II) in which A is carboxyl, alkoxycarbonyl, hydroxyalkoxy, carbonyl, cyano, hydroxysulphonyl, fluorosulphonyl or -CO-NR1R2 in which R1 and R2 (same or different) are H or 1-6C alkyl, one of X is F and the other is Cl, F or CF3, n= 1-12, m= 1-3, and unsatd. dicarboxylic acids or derivs. contg. the gp. (III) -C(R3)(COOOH)-C(R4)(COOH)-, in which R3 and R4 (same or different) are H, F, Cl, 1-6C alkyl or halogenated 1-6C alkyl, or R3 and R4 together form a double bond; and (B) at least one non-functional monomer chosen from aliphatic vinyl monomers CY2=CYZ (IV) and aromatic vinyl monomers of formula (V) in which Y is H or F, Z is H, F or Cl, and W is H, 1-6C alkyl, 2-6C alkenyl, halogenated 1-6C alkyl or halogenated 2-6C alkenyl; and in which the mol. ratio co-grafted monomer (A) to (B) is 2:1 to 1:20, esp. 2:1 to 1:3.

The diaphragms are rendered hydrophilic by the grafting treatment and thus have improved wettability and performance when used as electrode sepg. membranes in chlor-alkali cells used for the electrolysis of alkali metal chloride solns.
ABSTRACTED-PUB-NO:

US 4506035A EQUIVALENT-ABSTRACTS:

Hydrophilic microporous diaphragm comprises a fluorocarbon polymer on which is grafted by radiation a mixt. of one or more monomers of formula CF2=CF(CF2)nA; at least one monomer of formula CF2=CF-O-(CFX-CFX)mA; one or more unsatd. dicarboxylic acids having a functional gp. of formula -C(R)(C~OH)-C(R')(COOH)-; one or more monomers of formula CY2=CYZ or formula (I); such that the molar ratio of grafted functional monomer to nonfunctional monomer is 0.05-2.0. In the formulae A is COOH, alkoxycarbonyl, hydroxyalkoxy, CO, CN, SO3H, SO2F or opt. substd. CONH2; one X is F and the other is Cl, F or CF3; n is 1-12; m is 1-3; R and R' are each H, F, Cl, or opt. halogenated 1-6C alkyl, or together denote an extra C to C bond; Y is H or F; Z is H, F or Cl; and W is H or opt. halogenated 1-6C alkyl or alkenyl.

USE - The prods. have improved wetting properties for use in chlorine-alkali cells.

(10pp)



☐ 20. Document ID: WO 8201882 A, DE 3173537 G, EP 65547 A, EP 65547 B, JP 57501858 W, JP 90061498 B, US 4602045 A, ZA 8108207 A

L9: Entry 20 of 24 File: DWPI Jun 10, 1982

DERWENT-ACC-NO: 1982-50214E
DERWENT-WEEK: 198224


TITLE: Radiation graft copolymerisation of fluorinated carboxylic acid - to fluoro-polymeric permselective membrane, used in chlor:alkali electrolysis cells

INVENTOR: BARNETT, G ; MARKUS, M

PRIORITY-DATA: 1980AU-0006668 (November 27, 1980)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 8201882 A | June 10, 1982 | E | 018 | |
| DE 3173537 G | February 27, 1986 | | 000 | |
| EP 65547 A | December 1, 1982 | E | 000 | |
| EP 65547 B | January 15, 1986 | E | 000 | |
| JP 57501858 W | October 14, 1982 | | 000 | |
| JP 90061498 B | December 20, 1990 | | 000 | |
| US 4602045 A | July 22, 1986 | | 000 | |
| ZA 8108207 A | September 10, 1982 | | 000 | |

INT-CL (IPC): C08F 2/54; C08F 14/18; C08F 214/26; C08F 259/08; C08J 5/22; C08J 7/18; C25B 1/46; C25B 13/08; H01M 2/16

ABSTRACTED-PUB-NO: EP 65547B
BASIC-ABSTRACT:

A fluoropolymeric permselective membrane is irradiated with high energy radiation to generate free radical sites in it and treated with a monomer material comprising a fluorinated carboxylic acid or its deriv. to effect graft copolymerisation.

Pref. perfluoro-but-3-enoic acid or its Me or Et ester is used as the monomer material; and a membrane derived from a copolymer of tetrafluoro-ethylene and perfluoro-vinul sulphonyl fluoride.

The membrane may contain sulphonate, carboxylate or phosphonate cation exchange gps. Gamma- or X-rays or electron beams can be used for the irradiation. The wt. increase in the membrane after graft copolymerisation is suitably less than 12, pref. 3-5,%.

The membrane is also used in batteries and fuel cells. The process improves the resistance of the membrane to back-migration of hydroxyl ions when it is used in a chloralkali electrolysis cell. The treatment can be applied to the whole depth of the membrane; and the modified is not subject to leaching problems.
ABSTRACTED-PUB-NO:

US 4602045A EQUIVALENT-ABSTRACTS:

A process for treating a fluoropolymeric permselective membrane to improve its resistance to back-migration of hydroxyl ions when it is used in a chlor-alkali electrolysis cell, which process comprises irradiating the same membrane with high energy radiation to generate free radical sites therein and treating the said membrane with a monomer material comprising a fluorinated carboxylic acid or an alkyl ester thereof containing from 1 to 6 carbon atoms so that the said monomeric material graft copolymerises with the fluoropolymer to form a copolymeric component therein. (7pp)

Preformed permselective membrane derived from a copolymer of TFE and perfluorovinyl sulphonyl fluoride is contacted with perfluorobutenoic acid or (m)ethyl perfuorobut-3-enotae as monomer and simultaneously irradiated with high energy radiation to graft copolymerise the monomer onto the membrane. Pref gamma, x-ray or electron beam irradiation is used and the membrane undergoes a wt. increase of 3-5 wt.%.

USE/ADVANTAGE - The membrane aquires improved resistance to back migration of OH ions when used in a chloralkali electrolysis cell, enabling high current efficiency to be obtd. The membrane can also be used e.g. as a separator or solid electrolyte in batteries, fuel cells and other electrolysis cells. (6pp)

WO 8201882A



☐ 21. Document ID: US 4159318 A

L9: Entry 21 of 24 File: DWPI Jun 26, 1979

DERWENT-ACC-NO: 1979-52464B
DERWENT-WEEK: 197928


TITLE: Oil-free make=up contg. inorganic pigments - in aq. vehicle thickened with clay and hydroxyethyl cellulose

INVENTOR: BARNETT, G ; GERSHAW, N ; MAUSNER, J J

PRIORITY-DATA: 1977US-0815306 (July 13, 1977)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 4159318 A | June 26, 1979 | | 000 | |

INT-CL (IPC): A61K 7/02

ABSTRACTED-PUB-NO: US 4159318A
BASIC-ABSTRACT:

A stable oil-free make-up compsn. contains 0.1-1.25 wt.% hydrous Mg al silicate a bactericidal preservative, a chelating agent, 0.1 wt.% allantoin, 0.30 wt.% triethanolamine 0.5-5.0 wt.% ethoxylated methyl glucosite, 20.00 wt.% propylene glycol, 0.05 wt.% dioctyl Na sulphosuccinate, 0.3-1.45 wt.% hydroxyethyl cellulose 0.05-2.5 wt.% Na polynaphthalene sulphonate, water insoluble pigment, (esp. an iron oxide), 0.05 wt.% perfume, 0.01 wt.% camphor, 0.01 wt.% menthol, balance water.

The compsn. is emollient and lubricating, but free of oil, and is not prone to colour streaking.

☐ 22. Document ID: US 4148875 A

L9: Entry 22 of 24 File: DWPI Apr 10, 1979

DERWENT-ACC-NO: 1979-33253B
DERWENT-WEEK: 197917


TITLE: Gel toner compsn. for skin - contains protein encapsulated by hectorite clay and polar cpd.

INVENTOR: BARNETT, G ; GERSHAW, N ; MAUSNER, J J

PRIORITY-DATA: 1977US-0781844 (March 28, 1977), 1975US-0611435 (September 5, 1975)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 4148875 A | April 10, 1979 | | 000 | |

INT-CL (IPC): A61K 31/78; B01J 13/00

ABSTRACTED-PUB-NO: US 4148875A
BASIC-ABSTRACT:

An aqs. gel toner for use on the skin consists of a carrier and an encapsulated base. The carried comprises an emulsifier, a dispersing agent, a nonionic surfactant, a hymectant, a gel-forming amt. of hectorite clay, a peptiser for the clay, and water. The encapsulated base comprises milk protein, hectorite clay a cpd. with polar gps. in sufficient amt. to form insoluble particles greater than colloidal size on reaction with the clay and water.

The compsn. is non-oily, easily washed off, and contains protein encapsulated so that it is protected from degradation and loss of activity.

Full | Title | Citation | Front | Review | Classification | Date | Reference | no | Claims | KWIC | Draw Desc

☐ 23. Document ID: US 4136166 A

L9: Entry 23 of 24 File: DWPI Jan 23, 1979

DERWENT-ACC-NO: 1979-09908B
DERWENT-WEEK: 200400


TITLE: Skin lightening cosmetic compsn. - contg. stabilised hydroquinone in moisturising base, and a sunscreening agent

INVENTOR: BARNETT, G ; GERSHAW, N ; MAUSNER, J J

PRIORITY-DATA: 1977US-0788440 (April 18, 1977)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|

US 4136166 A January 23, 1979 000

INT-CL (IPC): A61K 7/13

ABSTRACTED-PUB-NO: US 4136166A
BASIC-ABSTRACT:

Skin lightening cosmetic compsn. consists of (all pts. by wt.): Phase (A) cetyl alcohol (0.25-8), polyoxyethylene (40) stearate (I) (0.25-5), polyoxyethylene(2)-cetyl ether (II) (0.25-5), white mineral oil (2-35), preservative, stearic acid (0.25-5), and amyl p-dimethylaminobenzoate (0.25-5); Phase (b) propylene glycol (1-15), preservative, hydroxyethylcellulose (0.25-3.5), Mg Al silicate (0.25-3.5), di-Na EDTA (0.05-1), 20% aq. citric acid (0.1-1), hydroquinone (0.1-4), and H2O (qs 100); and Phase (c) Na2SO3 (0.05-2.5), Na2S2O5 (0.05-2.5), and H2O (qs 100).

Compsn. is effective in bleaching skin (e.g., dark or blotchy patches in elderly people), but is mild in action. The compsn. also contains a sunscreening agent so that the user may be exposed to sun after applying the compsn.

Full | Title | Citation | Front | Review | Classification | Date | Reference | no | Claims | KWIC | Draw Desc

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☐ 24. Document ID: US 4129645 A

L9: Entry 24 of 24 File: DWPI Dec 12, 1978

DERWENT-ACC-NO: 1978-93142A
DERWENT-WEEK: 197851


TITLE: Ultraviolet sunscreen compsn. contg. skin moisturising base - and sunscreening agent encapsulated in hectorite clay for use when sunbathing

INVENTOR: BARNETT, G ; GERSHAW, N ; MAUSNER, J J

PRIORITY-DATA: 1977US-0788885 (April 19, 1977), 1975US-0611435 (September 5, 1975)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 4129645 A | December 12, 1978 | | 000 | |

INT-CL (IPC): A61K 7/44

ABSTRACTED-PUB-NO: US 4129645A
BASIC-ABSTRACT:

A UV sunscreen comprises (A) an oil phase of emulsifier, emollient and nonionic surfactant; (B) a water phase of (by-wt.) 0.1-7.5 pts. hectorite clay (I); 0.1-7.5 pts. peptiser (II) for (II); 1-15 pts. humectant (III); 0.1 pts. hydrolysed animal fatty protein complex and water, and (C) an encapsulated active base.

(C) comprises (by wt.) 0.1-10 pts. (I); 0.1-3 pts. organic cpd. (IV) with polar gps.; 0.5-2 pts. (II), sunscreening agent (V) and water. (IV) can react with (I) giving water-insoluble particles of above colloidal size when added to an aq. colloidal soln. of (I) and Na4P2O7 and is a simple organic cpd. with >=1 polar gp. and which is sparingly soluble in water at ordinary temp., or is an organic hydrophilic colloid. Pref. (IV) is hydroxyethylcellulose.

Full | Title | Citation | Front | Review | Classification | Date | Reference | no | Claims | KWIC | Draw Desc

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☐ 1. Document ID: US 20040204359 A1

**Using default format because multiple data bases are involved.**

L12: Entry 1 of 1 File: PGPB Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040204359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040204359 A1

TITLE: Methods and compositions in treating pain and painful disorders using 16386,15402, 21165, 1423, 636, 12303, 21425, 27410, 38554, 38555, 55063, 57145, 59914, 94921, 16852, 33260, 58573, 30911, 85913, 14303, 16816, 17827 or 32620

PUBLICATION-DATE: October 14, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Silos-Santiago, Inmaculada | Del Mar | CA | US | |
| Karicheti, Venkateswarlu | Chapel Hill | NC | US | |
| Eliasof, Scott D. | Lexington | MA | US | |

US-CL-CURRENT: 514/12; 424/143.1, 435/7.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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☐ 1. Document ID: US 20040209307 A1

**Using default format because multiple data bases are involved.**

L13: Entry 1 of 29 File: PGPB Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040209307
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040209307 A1

TITLE: Diagnostic markers of stroke and cerebral injury and methods of use thereof

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Valkirs, Gunars | Escondido | CA | US | |
| Dahlen, Jeffrey | San Diego | CA | US | |
| Kirchick, Howard | San Diego | CA | US | |
| Buechler, Kenneth F. | San Diego | CA | US | |

US-CL-CURRENT: 435/7.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

☐ 2. Document ID: US 20040175754 A1

L13: Entry 2 of 29 File: PGPB Sep 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040175754
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040175754 A1

TITLE: Diagnosis and monitoring of inflammation, ischemia and appendicitis

PUBLICATION-DATE: September 9, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Bar-Or, David | Englewood | CO | US | |
| Bar-Or, Raphael | Denver | CO | US | |
| Winkler, James V. | Denver | CO | US | |
| Yukl, Richard L. | Denver | CO | US | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The invention provides methods and kits for diagnosing and monitoring inflammation and/or ischemia in an animal. The methods comprise determining the quantity of a post-translationally modified protein, other than phosphorylated tau, present in a body fluid from an animal.

The invention also provides an improved method and kits for diagnosing appendicitis in an animal. The method comprises determining the quantities of orthohydroxyhippuric acid and of a marker of general inflammation, such as a post-translationally modified protein, present in one or more body fluids of the animal.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

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☐ 3. Document ID: US 20030203404 A1

L13: Entry 3 of 29 File: PGPB Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030203404
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030203404 A1

TITLE: Bioluminescence resonance energy transfer( bret) system with broad spectral resolution between donor and acceptor emission wavelengths and its use

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Joly, Erik | Blainville | | CA | |

US-CL-CURRENT: 435/7.1; 435/287.2, 435/320.1, 435/325, 435/69.1, 435/8

ABSTRACT:

The present invention provides a bioluminescence resonance energy transfer (BRET) detection system characterised by a broad spectral resolution between donor and acceptor emission wavelengths. The broad spectral resolution between the emission wavelength of the bioluminescent donor protein and the fluorescent acceptor molecule results in an increased signal-to-base ratio and dynamic range in comparison with a basic BRET system.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

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☐ 4. Document ID: US 20030199000 A1

L13: Entry 4 of 29 File: PGPB Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199000
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030199000 A1

TITLE: Diagnostic markers of stroke and cerebral injury and methods of use thereof

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Valkirs, Gunars E. | Escondido | CA | US | |
| Dahlen, Jeffery | San Diego | CA | US | |
| Kirchick, Howard J. | San Diego | CA | US | |
| Buechler, Kenneth F. | Rancho Santa Fe | CA | US | |

US-CL-CURRENT: 435/7.1; 435/287.2

ABSTRACT:

The present invention relates to methods for the diagnosis and evaluation of stroke and transient ischemic attacks. A variety of markers are disclosed for assembling a panel for such diagnosis and evaluation. In various aspects, the invention provides methods for early detection and differentiation of stroke types and transient ischemic attacks, for determining the prognosis of a patient presenting with stroke symptoms, and identifying a patient at risk for cerebral vasospasm. Invention methods provide rapid, sensitive and specific assays to greatly increase the number of patients that can receive beneficial stroke treatment and therapy, and reduce the costs associated with incorrect stroke diagnosis.



☐ 5. Document ID: US 20030157554 A1

L13: Entry 5 of 29 File: PGPB Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030157554
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030157554 A1

TITLE: Protein-protein complexes and methods of using same

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Giot, Loic | Madison | CT | US | |
| Eisen, Andrew | Rockville | MD | US | |
| Lewin, David A. | New Haven | CT | US | |

US-CL-CURRENT: 435/7.1; 435/226, 435/23

ABSTRACT:

The invention provides complexes of at least two polypeptides, and methods of using the same. Purified complexes of two polypeptides are provided, including chimeric complexes, and chimeric polypeptides and complexes thereof are also provided, as are nucleic acids encoding chimeric polypeptides and vectors and cells containing the same. Also provided are methods of identifying agents that disrupt polypeptide complexes, methods of identifying complex or polypeptide in a sample, and for removing the same, methods of determining altered expression of a polypeptide in a subject, and methods of treating/preventing disorders involving altered levels of

complex or polypeptide.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

☐ 6. Document ID: US 20030139358 A1

L13: Entry 6 of 29 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030139358
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030139358 A1

TITLE: Novel human proteins, polynucleotides encoding them and methods of using the same

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Spytek, Kimberly A. | New Haven | CT | US | |
| Padigaru, Muralidhara | Branford | CT | US | |
| Majumder, Kumud | Stamford | CT | US | |
| MacDougall, John R. | Hamden | CT | US | |
| Stone, David J. | Guilford | CT | US | |
| Gangolli, Esha A. | Madison | CT | US | |
| Spaderna, Steven K. | Berlin | CT | US | |
| Smithson, Glennda | Branford | CT | US | |

US-CL-CURRENT: 514/44; 435/183, 435/320.1, 435/6, 435/69.1, 435/7.1, 514/12, 536/23.2

ABSTRACT:

The invention provides polypeptides, designated herein as POLYX polypeptides, as well as polynucleotides encoding POLYX polypeptides, and antibodies that immunospecifically-bind to POLYX polypeptide or polynucleotide, or derivatives, variants, mutants, or fragments thereof. The invention additionally provides methods in which the POLYX polypeptide, polynucleotide, and antibody are used in the detection, prevention, and treatment of a broad range of pathological states.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

☐ 7. Document ID: US 20030130827 A1

L13: Entry 7 of 29 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130827
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030130827 A1

TITLE: Protein design automation for protein libraries

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Bentzien, Joerg | White Plains | NY | US | |
| Dahiyat, Bassil I. | Altadena | CA | US | |
| Desjarlais, John R. | Pasadena | CA | US | |
| Hayes, Robert J. | Pasadena | CA | US | |
| Vielmetter, Jost | Altadena | CA | US | |

US-CL-CURRENT: 703/11; 435/7.1

ABSTRACT:

The invention relates to the use of protein design automation (PDA.TM.) to generate computationally prescreened secondary libraries of proteins, and to methods and compositions utilizing the libraries.



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☐ 8. Document ID: US 20030119064 A1

L13: Entry 8 of 29 File: PGPB Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119064
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119064 A1

TITLE: Diagnostic markers of stroke and cerebral injury and methods of use thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Valkirs, Gunars E. | Escondido | CA | US | |
| Dahlen, Jeffrey R. | San Diego | CA | US | |
| Kirchick, Howard J. | San Diego | CA | US | |
| Buechler, Kenneth F. | Rancho Santa Fe | CA | US | |

US-CL-CURRENT: 435/7.1; 435/7.2

ABSTRACT:

The present invention relates to methods for the diagnosis and evaluation of stroke and transient ischemic attacks. In a particular aspect, patient samples are analyzed for the presence or amount of a panel of markers comprising one or more specific markers for cerebral injury and one or more non-specific markers for cerebral injury. In an alternative aspect, samples are analyzed for B-type natriuretic peptide. A variety of markers are disclosed for assembling a panel for such diagnosis and evaluation. In various aspects, the invention provides methods for early detection and differentiation of stroke types and transient ischemic attacks, for determining the prognosis of a patient presenting with stroke symptoms, and identifying a patient at risk for cerebral vasospasm. Invention methods provide rapid, sensitive and specific assays to greatly increase the number of patients that can receive beneficial stroke treatment and therapy, and reduce the costs associated with incorrect stroke diagnosis.

☐ 9. Document ID: US 20030104445 A1

L13: Entry 9 of 29 File: PGPB Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104445
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030104445 A1

TITLE: RNA dependent RNA polymerase mediated protein evolution

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Hayes, Robert J. | Pasadena | CA | US | |
| Aguinaldo, Anna-Marie | Altadena | CA | US | |

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 435/7.1, 435/91.2, 530/350, 536/23.2

ABSTRACT:

The invention relates to the use of RNA dependent RNA polymerase to generate libraries of proteins, and to methods of making and methods and compositions utilizing the libraries.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

☐ 10. Document ID: US 20030064416 A1

L13: Entry 10 of 29 File: PGPB Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030064416
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030064416 A1

TITLE: Process for differential diagnosis of Alzheimer's dementia in patients exhibiting mild cognitive impairment

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Takahashi, Miyoko | North York | | CA | |

US-CL-CURRENT: 435/7.21

ABSTRACT:

A method for determining those patients suffering from mild cognitive impairment (MCI) who have a likelihood of progressing to Alzheimer's disease (AD) is disclosed. The method involves directly detecting the presence of a biochemical marker, specifically human glutamine synthetase, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to human glutamine synthetase. In addition, a method for distinguishing between AD and non-AD dementia is disclosed.



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☐ 11. Document ID: US 20020160425 A1

L13: Entry 11 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160425
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160425 A1

TITLE: Process for differential diagnosis of Alzheimer's dementia and device therefor

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Takahashi, Miyoko | North York | | CA | |

US-CL-CURRENT: 435/7.1; 435/7.2

ABSTRACT:

A method for diagnosing Alzheimer's disease(AD) is disclosed. The method involves directly detecting the presence of a biochemical marker, specifically human glutamine synthetase, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to human glutamine synthetase. In addition, a method for distinguishing between AD and non-AD dementia is disclosed.



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☐ 12. Document ID: US 20020160423 A1

L13: Entry 12 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160423
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160423 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1536 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 13. Document ID: US 20020160422 A1

L13: Entry 13 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160422
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160422 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1077 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence

and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

☐ 14. Document ID: US 20020160421 A1

L13: Entry 14 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160421
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160421 A1

TITLE: Method for monitoring and validating stress induction of disease state

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Stanton, Eric B. | Burlington | | CA | |

US-CL-CURRENT: 435/7.1; 435/6, 702/19, 702/20

ABSTRACT:

The present invention provides a biochemically-based methodology for ascertaining the presence and/or verifying the historical release of biopolymers, which have been shown to be indicative of a disease state or are predictive of the development of said disease state.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

☐ 15. Document ID: US 20020160420 A1

L13: Entry 15 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160420
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160420 A1

TITLE: Process for diagnosis of physiological conditions by characterization of proteomic materials

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1; 435/7.5, 436/518, 702/19

ABSTRACT:

The present invention discloses the use of proteomic investigation as a diagnostic tool; and particularly teaches the use of proteomic investigative techniques and methodology to determine a proteomic basis for the development and progression of abnormal physiological conditions and the development and characterization of risk assessment, diagnostic and therapeutic means and methodologies.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

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☐ 16. Document ID: US 20020160419 A1

L13: Entry 16 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160419
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160419 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1793 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

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☐ 17. Document ID: US 20020160418 A1

L13: Entry 17 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160418

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160418 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1949 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 18. Document ID: US 20020160417 A1

L13: Entry 18 of 29 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160417
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160417 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1424 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Stanton, Eric B. | Burlington | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drwg

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☐ 19. Document ID: US 6780606 B1

L13: Entry 19 of 29 File: USPT Aug 24, 2004

US-PAT-NO: 6780606
DOCUMENT-IDENTIFIER: US 6780606 B1

TITLE: Method for diagnosing and distinguishing stroke and diagnostic devices for use therein

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |

US-CL-CURRENT: 435/7.92; 422/50, 422/60, 422/61, 424/184.1, 424/9.1, 435/7.2, 435/7.21, 436/501, 436/514, 436/518, 436/524

ABSTRACT:

A method for determining whether a subject has had a stroke and, if so, the type of stroke which includes analyzing the subject's body fluid for at least four selected markers of stroke, namely, myelin basic protein, S100 protein, neuronal specific enolase and a brain endothelial membrane protein such as thrombomodulin or a similar molecule. The data obtained from the analyses provide information as to the type of stroke, the onset of occurrence and the extent of brain damage and allow a physician to determine quickly the type of treatment required by the subject.

30 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Drwg

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☐ 20. Document ID: US 6756476 B2

L13: Entry 20 of 29 File: USPT Jun 29, 2004

US-PAT-NO: 6756476
DOCUMENT-IDENTIFIER: US 6756476 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2021 daltons

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 530/300; 435/7.1, 435/7.2, 436/173, 436/174, 436/501, 436/63, 436/86, 436/89, 530/387.9, 530/388.25, 530/391.3, 530/412

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



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☐ 21. Document ID: US 6670136 B2

L13: Entry 21 of 29 File: USPT Dec 30, 2003

US-PAT-NO: 6670136
DOCUMENT-IDENTIFIER: US 6670136 B2

TITLE: Extracellular novel RAGE binding protein (EN-RAGE) and uses thereof

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Schmidt; Ann Marie | Franklin Lakes | NJ | | |
| Stern; David | Great Neck | NY | | |

US-CL-CURRENT: 435/7.1; 530/324, 530/350, 530/388.1, 530/389.1

ABSTRACT:

The present invention provides for an isolated human EN-RAGE peptide. The present invention also provides for a method for determining whether a compound is capable of

inhibiting the interaction of an EN-RAGE peptide with a RAGE peptide, which comprises: (a) admixing: (i) a RAGE peptide or an sRAGE peptide or a fragment of either thereof, (ii) an EN-RAGE peptide or a fragment thereof, and (iii) the compound; (b) measuring the level of interaction between the peptide of step (a) (i) and the peptide of step (a) (ii), and (c) comparing the amount of interaction meausred in step (b) with the amount measured between the petpide of step (a)(i) and the peptide of step (a) (ii) in the absence of the compound, thereby determining whether the compound is capable of inhibiting the interaction of the EN-RAGE peptide with the RAGE peptide, wherein a reduction in the amount of interaction in the presence of the compound indicates that the compound is capable of inhibiting the interaction. The present invention also provides for a method for inhibiting inflammation in a subject which comprises administering to the subject a compound capable of interfering with the interaction between EN-RAGE peptide and receptor for advanced glycation endproduct (RAGE) in the subject thereby inhibiting inflammation in the subject.

2 Claims, 27 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27



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☐ 22. Document ID: US 6638504 B1

L13: Entry 22 of 29 File: USPT Oct 28, 2003

US-PAT-NO: 6638504
DOCUMENT-IDENTIFIER: US 6638504 B1
**** See image for Certificate of Correction ****

TITLE: Methods for treating cancer

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Lukanidin; Eugene | Copenhagen | | | DK |

US-CL-CURRENT: 424/130.1; 435/4, 435/7.1

ABSTRACT:

The present invention is directed towards the diagnosis of malignant cancer by detection of the mts-1 MRNA or the mts-1 protein, encoded by the mts-1 gene. The present invention contemplates the use of recombinant mts-1 DNA and antibodies directed against the mts-1 protein to diagnose the metastatic potential of several types of tumor cells, including, for example, thyroid, epithelial, lung, liver and kidney tumor cells. The present invention is also directed to mammalian cell lines and tumors with high and low metastatic potential which have been developed to serve as tseful model systems for in vitro and in vivo anti-metastasis drug screening.

5 Claims, 46 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 33

☐ 23. Document ID: US 6627457 B2

L13: Entry 23 of 29 File: USPT Sep 30, 2003

US-PAT-NO: 6627457
DOCUMENT-IDENTIFIER: US 6627457 B2
**** See image for Certificate of Correction ****

TITLE: Methods for detecting pregnancy

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Pandian; Murugan R. | Mission Viejo | CA | | |
| Lu; Julie Y. | Mission Viejo | CA | | |

US-CL-CURRENT: 436/501; 435/7.1, 435/7.8, 436/510, 436/536, 436/542, 436/65, 436/804, 436/818, 436/824, 530/387.5, 530/388.24, 530/389.2

ABSTRACT:

Methods for detecting pregnancy in a woman comprise screening a biological sample of the woman for pregnancy markers. The methods of the invention include chemiluminescent assays for the pregnancy markers. The methods of the invention also comprise utilizing at least two capture antibodies that specifically bind different epitopes of the pregnancy marker in one assay. The methods of the invention permit detection of pregnancy within about 7 days after ovulation or implantation.

37 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drwg

☐ 24. Document ID: US 6461828 B1

L13: Entry 24 of 29 File: USPT Oct 8, 2002

US-PAT-NO: 6461828
DOCUMENT-IDENTIFIER: US 6461828 B1

TITLE: Conjunctive analysis of biological marker expression for diagnosing organ failure

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Stanton; Eric B. | Burlington | | | CA |
| Jackowski; George | Kettleby | | | CA |

US-CL-CURRENT: 435/7.92; 422/60, 422/61, 435/7.93, 435/7.94, 435/969, 435/970,

435/973, 435/975, 436/514, 436/518, 436/528, 436/530, 436/807, 436/808, 436/810

ABSTRACT:

A diagnostic tool is disclosed for accurately and rapidly diagnosing the condition of an ailing organ. Although applicable to numerous organ and organ systems, this application particularly illustrates the concept of conjunctive marker utilization as it relates to diagnosing and distinguishing congestive heart failure. The invention particularly relates to the conjunctive utilization of cardiac Troponin I (cTn-I) and natriuretic peptide, e.g. ANP, pro-ANP, BNP, pro-BNP and CNP as a retrospective tool for diagnosing the underlying mechanism of heart failure and as a prospective analytical device for monitoring disease progression and efficacy of therapeutic agents.

5 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drwg

☐ 25. Document ID: US 6451547 B1

L13: Entry 25 of 29 File: USPT Sep 17, 2002

US-PAT-NO: 6451547
DOCUMENT-IDENTIFIER: US 6451547 B1

TITLE: Process for differential diagnosis of Alzheimer's dementia and device therefor

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Takahashi; Miyoko | North York | | | CA |

US-CL-CURRENT: 435/7.4; 435/7.1, 435/7.9, 435/7.92, 435/7.93, 435/7.94, 435/7.95, 530/387.2, 530/388.1, 530/388.25, 530/388.26, 530/389.1, 530/389.3, 530/391.1

ABSTRACT:

A method for diagnosing Alzheimer's disease(AD) is disclosed. The method involves directly detecting the presence of a biochemical marker, specifically human glutamine synthetase, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to human glutamine synthetase. In addition, a method for distinguishing between AD and non-AD dementia is disclosed.

13 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drwg

☐ 26. Document ID: US 6235489 B1

L13: Entry 26 of 29 File: USPT May 22, 2001

US-PAT-NO: 6235489
DOCUMENT-IDENTIFIER: US 6235489 B1

TITLE: Method for diagnosing and distinguishing stroke and diagnostic devices for use therein

DATE-ISSUED: May 22, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |

US-CL-CURRENT: 435/7.92; 422/55, 422/56, 422/58, 422/60, 422/61, 424/9.1, 435/13, 435/4, 435/5, 435/6, 435/7.1, 435/7.21 , 435/7.4, 435/7.9, 435/7.94, 435/7.95, 435/9, 435/969, 435/970, 435/973, 435/975, 436/161, 436/164, 436/514, 436/528, 436/530, 436/531, 436/807, 436/808, 436/810, 436/811

ABSTRACT:

A method for determining whether a subject has had a stroke and, if so, the type of stroke which includes analyzing the subject's body fluid for at least four selected markers of stroke, namely, myelin basic protein, S100 protein, neuronal specific enolase and a brain endothelial membrane protein such as thrombomodulin or a similar molecule. The data obtained from the analyses provide information as to the type of stroke, the onset of occurrence and the extent of brain damage and allow a physician to determine quickly the type of treatment required by the subject.

19 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10



☐ 27. Document ID: US 6140058 A

L13: Entry 27 of 29 File: USPT Oct 31, 2000

US-PAT-NO: 6140058
DOCUMENT-IDENTIFIER: US 6140058 A

TITLE: Activation of p53 protein

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Lane; David Philip | St. Andrews | | | GB |
| Hupp; Theodore Robert | Dundee | | | GB |

US-CL-CURRENT: 435/7.1; 424/155.1, 424/174.1, 435/7.23, 530/350, 530/358

ABSTRACT:

A class of mutant forms of p53 protein, such as His273 and Lys285, which are defective in conversion from the latent to the activated state by casein kinase II, but with the ability to be activated for specific DNA binding by the action of ligands such as monoclonal antibody PAb421 and heat shock protein DnaK. Activation of these mutants, which are found at high levels in certain types of tumour, can potentially lead to selective growth arrest and induction of apoptosis in the tumor cells. p53 can be constitutively activated also by deletion of the C-terminal 30 amino acids. p53 activated in this way, or by ligand binding, can be administered for the purposes of tumour or cell growth suppression.

17 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4



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☐ 28. Document ID: US 5989827 A

L13: Entry 28 of 29 File: USPT Nov 23, 1999

US-PAT-NO: 5989827
DOCUMENT-IDENTIFIER: US 5989827 A

TITLE: Use of nuclear magnetic resonance to design ligands to target biomolecules

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Fesik; Stephen W. | Gurnee | IL | | |
| Hajduk; Philip J. | Palatine | IL | | |
| Olejniczak; Edward T. | Grayslake | IL | | |

US-CL-CURRENT: 435/7.1; 436/173, 436/501

ABSTRACT:

The present invention provides a process of designing compounds which bind to a specific target molecule. The process includes the steps of a) identifying a first ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; b) identifying a second ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; c) forming a ternary complex by binding the first and second ligands to the target molecule; d) determining the three dimensional structure of the ternary complex and thus the spatial orientation of the first and second ligands on the target molecule; and e) linking the first and second ligands to form the drug, wherein the spatial orientation of step (d) is maintained.

8 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12



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☐ 29. Document ID: US 5891643 A

L13: Entry 29 of 29 File: USPT Apr 6, 1999

US-PAT-NO: 5891643
DOCUMENT-IDENTIFIER: US 5891643 A
**** See image for Certificate of Correction ****

TITLE: Use of nuclear magnetic resonance to design ligands to target biomolecules

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Fesik; Stephen W. | Gurnee | IL | | |
| Hajduk; Philip J. | Palatine | IL | | |
| Olejniczak; Edward T. | Grayslake | IL | | |

US-CL-CURRENT: 435/7.1; 436/173, 436/501

ABSTRACT:

The present invention provides a process of designing compounds which bind to a specific target molecule. The process includes the steps of a) identifying a first ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; b) identifying a second ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; c) forming a ternary complex by binding the first and second ligands to the target molecule; d) determining the three dimensional structure of the ternary complex and thus the spatial orientation of the first and second ligands on the target molecule; and e) linking the first and second ligands to form the drug, wherein the spatial orientation of step (d) is maintained.

8 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10



| Terms | Documents |
|---|---|
| L11 AND S100b | 29 |

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☐ 1. Document ID: US 20040224423 A1

**Using default format because multiple data bases are involved.**

L16: Entry 1 of 131 File: PGPB Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040224423
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040224423 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2056 daltons

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 436/518; 530/326

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des.

☐ 2. Document ID: US 20040209307 A1

L16: Entry 2 of 131 File: PGPB Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040209307
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040209307 A1

TITLE: Diagnostic markers of stroke and cerebral injury and methods of use thereof

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Valkirs, Gunars | Escondido | CA | US | |
| Dahlen, Jeffrey | San Diego | CA | US | |
| Kirchick, Howard | San Diego | CA | US | |
| Buechler, Kenneth F. | San Diego | CA | US | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The present invention relates to methods for the diagnosis and evaluation of stroke and transient ischemic attacks. A variety of markers are disclosed for assembling a panel for such diagnosis and evaluation. In various aspects, the invention provides methods for early detection and differentiation of stroke types and transient ischemic attacks, for determining the prognosis of a patient presenting with stroke symptoms, and identifying a patient at risk for cerebral vasospasm. Invention methods provide rapid, sensitive and specific assays to greatly increase the number of patients that can receive beneficial stroke treatment and therapy, and reduce the costs associated with incorrect stroke diagnosis.



☐ 3. Document ID: US 20040204359 A1

L16: Entry 3 of 131 File: PGPB Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040204359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040204359 A1

TITLE: Methods and compositions in treating pain and painful disorders using 16386,15402, 21165, 1423, 636, 12303, 21425, 27410, 38554, 38555, 55063, 57145, 59914, 94921, 16852, 33260, 58573, 30911, 85913, 14303, 16816, 17827 or 32620

PUBLICATION-DATE: October 14, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Silos-Santiago, Inmaculada | Del Mar | CA | US | |
| Karicheti, Venkateswarlu | Chapel Hill | NC | US | |
| Eliasof, Scott D. | Lexington | MA | US | |

US-CL-CURRENT: 514/12; 424/143.1, 435/7.1

ABSTRACT:

The present invention relates to methods for the diagnosis and treatment of pain or painful disorders. Specifically, the present invention identifies the differential expression of 16386, 15402, 21165, 1423, 636, 12303, 21425, 27410, 38554, 38555, 55063, 57145, 59914, 94921, 16852, 33260, 58573, 30911, 85913, 14303, 16816, 17827 and 32620 genes in tissues relating to pain sensation, relative to their expression in normal, or non-painful disease states, and/or in response to manipulations relevant to pain. The present invention describes methods for the diagnostic evaluation and prognosis of various pain disorders, and for the identification of subjects exhibiting a predisposition to such conditions. The invention also provides methods for identifying a compound capable of modulating pain or painful disorders. The present invention also provides methods for the identification and therapeutic use of compounds as treatments of pain and painful disorders.

☐ 4. Document ID: US 20040198950 A1

L16: Entry 4 of 131 File: PGPB Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040198950
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040198950 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1518 daltons

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326; 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 5. Document ID: US 20040175754 A1

L16: Entry 5 of 131 File: PGPB Sep 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040175754
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040175754 A1

TITLE: Diagnosis and monitoring of inflammation, ischemia and appendicitis

PUBLICATION-DATE: September 9, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Bar-Or, David | Englewood | CO | US | |
| Bar-Or, Raphael | Denver | CO | US | |
| Winkler, James V. | Denver | CO | US | |

| | | | |
|---|---|---|---|
| Yukl, Richard L. | Denver | CO | US |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The invention provides methods and kits for diagnosing and monitoring inflammation and/or ischemia in an animal. The methods comprise determining the quantity of a post-translationally modified protein, other than phosphorylated tau, present in a body fluid from an animal.

The invention also provides an improved method and kits for diagnosing appendicitis in an animal. The method comprises determining the quantities of orthohydroxyhippuric acid and of a marker of general inflammation, such as a post-translationally modified protein, present in one or more body fluids of the animal.



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☐ 6. Document ID: US 20040121372 A1

L16: Entry 6 of 131 File: PGPB Jun 24, 2004

PGPUB-DOCUMENT-NUMBER: 20040121372
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040121372 A1

TITLE: Extracellular novel RAGE binding protein (EN-RAGE) and uses thereof

PUBLICATION-DATE: June 24, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Schmidt, Ann Marie | Franklin Lakes | NJ | US | |
| Stern, David | Great Neck | NY | US | |

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The present invention provides for an isolated human EN-RAGE peptide. The present invention also provides for a method for determining whether a compound is capable of inhibiting the interaction of an EN-RAGE peptide with a RAGE peptide, which comprises: (a) admixing: (i) a RAGE peptide or an sRAGE peptide or a fragment of either thereof, (ii) an EN-RAGE peptide or a fragment thereof, and (iii) the compound; (b) measuring the level of interaction between the peptide of step (a) (i) and the peptide of step (a) (ii), and (c) comparing the amount of interaction meausred in step (b) with the amount measured between the petpide of step (a)(i) and the peptide of step (a) (ii) in the absence of the compound, thereby determining whether the compound is capable of inhibiting the interaction of the EN-RAGE peptide with the RAGE peptide,, wherein a reduction in the amount of interaction in the presence of the compound indicates that the compound is capable of inhibiting the interaction. The present invention also provides for a method for inhibiting inflammation in a subject which comprises administering to the subject a compound capable of interfering with the interaction between EN-RAGE peptide and receptor for advanced glycation endproduct (RAGE) in the subject thereby inhibiting inflammation in the subject.

☐ 7. Document ID: US 20040106168 A1

L16: Entry 7 of 131 File: PGPB Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040106168
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040106168 A1

TITLE: System and method for neuronal network analysis

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Evans, Daron G. | Dallas | TX | US | |

US-CL-CURRENT: 435/40.5; 435/283.1, 435/29

ABSTRACT:

The present invention provides a system and method for testing the neuronal effects of a compound. The system (100) includes a microelectrode array (102), a data capture unit (106) communicably coupled to the microelectrode array (102), a processor (108) communicably coupled to the data capture unit (106) and one or more input/output devices (110) communicably coupled to the processor (108). The microelectrode array (102) is capable of supporting genetically modified neuronal cells (104) and measuring neuronal activity. The method (400) determines the effects of a sample on genetically modified neuronal cells by growing a culture of genetically modified neuronal cells on a microelectrode array (402) and exposing a portion of the genetically modified neuronal cells to a sample (404). The effects of the sample on the genetically modified neuronal cells exposed to the sample are measured to determine the effects of the sample on the genetically modified neuronal cells (406).

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 8. Document ID: US 20040086617 A1

L16: Entry 8 of 131 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040086617
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040086617 A1

TITLE: Additive for infant milk formulas

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|

| | | |
|---|---|---|
| Gazzolo, Diego | Genova | IT |
| Michetti, Fabrizio | Roma | IT |

US-CL-CURRENT: 426/580

ABSTRACT:

Disclosed is the use of the protein S100B as an infant milk formula supplement.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

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☐ 9. Document ID: US 20040082542 A1

L16: Entry 9 of 131 File: PGPB Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082542
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040082542 A1

TITLE: Azole derivatives and fused bicyclic azole derivatives as therapeutic agents

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mjalli, Adnan M.M. | Jamestown | NC | US | |
| Andrews, Robert C. | Jamestown | NC | US | |
| Gopalaswamy, Ramesh | Jamestown | NC | US | |
| Hari, Anitha | High Point | NC | US | |
| Avor, Kwasi S. | High Point | NC | US | |
| Qabaja, Ghassan | High Point | NC | US | |
| Guo, Xiao-Chuan | High Point | NC | US | |
| Gupta, Suparna | Greensboro | NC | US | |
| Jones, David R. | Asheboro | NC | US | |
| Chen, Xin | High Point | NC | US | |

US-CL-CURRENT: 514/63; 514/264.1, 514/266.2, 514/266.23, 514/310, 514/314, 514/365, 514/374, 514/400, 544/279, 544/284, 546/148, 548/110, 548/190, 548/222, 548/326.5

ABSTRACT:

This invention provides certain compounds, methods of their preparation, pharmaceutical compositions comprising the compounds, and their use in treating human or animal disorders. The compounds of the invention are useful as modulators of the interaction between the receptor for advanced glycated end products (RAGE) and its ligands, such as advanced glycated end products (AGEs), S100/calgranulin/EN-RAGE, .beta.-amyloid and amphoterin, and for the management, treatment, control, or as an adjunct treatment for diseases in humans caused by RAGE. Such diseases or disease states include acute and chronic inflammation, the development of diabetic late complications such as increased vascular permeability, nephropathy, atherosclerosis, and retinopathy, the development of Alzheimer's disease, erectile dysfunction, and tumor invasion and metastasis.

☐ 10. Document ID: US 20040072997 A1

L16: Entry 10 of 131 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072997
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072997 A1

TITLE: Therapeutic polypeptides, nucleic acids encoding same, and methods of use

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Alsobrook, John P. II | Madison | CT | US | |
| Anderson, David W. | Branford | CT | US | |
| Burgess, Catherine E. | Wethersfield | CT | US | |
| Edinger, Shlomit R. | New Haven | CT | US | |
| Ellerman, Karen | Branford | CT | US | |
| Furtak, Katarzyna | Ansonia | CT | US | |
| Gangolli, Esha A. | Cambridge | MA | US | |
| Gerlach, Valerie | Branford | CT | US | |
| Gilbert, Jennifer A. | Madison | CT | US | |
| Gunther, Erik | Branford | CT | US | |
| Gorman, Linda | Branford | CT | US | |
| Guo, Xiaojia (Sasha) | Branford | CT | US | |
| Ji, Weizhen | Branford | CT | US | |
| Li, Li | Branford | CT | US | |
| Miller, Charles E. | Guilford | CT | US | |
| Padigaru, Muralidhara | Branford | CT | US | |
| Patturajan, Meera | Branford | CT | US | |
| Rastelli, Luca | Guilford | CT | US | |
| MacDougall, John R. | Hamden | CT | US | |
| Mishra, Vishnu | Gainesville | FL | US | |
| Smithson, Glennda | Guilford | CT | US | |
| Spytek, Kimberly A. | New Haven | CT | US | |
| Stone, David J. | Guilford | CT | US | |
| Shenoy, Suresh G. | Branford | CT | US | |
| Taupier, Raymond J. JR. | East Haven | CT | US | |
| Vernet, Corine A.M. | Branford | CT | US | |
| Zhong, Mei | Branford | CT | US | |
| Malyankar, Uriel M. | Branford | CT | US | |
| Millet, Isabelle | Milford | CT | US | |
| Kekuda, Ramesh | Norwalk | CT | US | |
| Grosse, William M. | Branford | CT | US | |

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 530/388.22, 536/23.5

ABSTRACT:

Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies that immunospecifically bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the novel polypeptide, polynucleotide, or antibody specific to the polypeptide. Vectors, host cells, antibodies and recombinant methods for producing the polypeptides and polynucleotides, as well as methods for using same are also included. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.



☐ 11. Document ID: US 20040072749 A1

L16: Entry 11 of 131 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072749
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072749 A1

TITLE: Composition for the elimination of autoreactive b-cells

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Zochoer, Marcel | Munchen | | DE | |
| Bauerle, Patrick | Gauting | | DE | |
| Dreier, Torsten | Munchen | | DE | |

US-CL-CURRENT: 514/12

ABSTRACT:

The present invention relates to a composition for the selective elimination of autoreactive B-cells comprising at least one (poly)peptide construct consisting of at least two domains wherein one of said domains comprises an autoreactive antigen or (a) fragments(s) thereof specifically recognized by the Ig receptors of said autoreactive B-cells and wherein one of said domains comprises an effector molecule capable of interacting with and/or of activating NK-cells, T-cells, macrophages, monocytes and/or granulocytes and/or capable of activating the complement system.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

☐ 12. Document ID: US 20040072744 A1

L16: Entry 12 of 131 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072744
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072744 A1

TITLE: Synthetic peptide as treatment for down's syndrome and schizophrenia

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Lipps, Binie V. | Bellaire | TX | US | |
| Lipps, Frederick W. | Bellaire | TX | US | |

US-CL-CURRENT: 514/12; 514/14, 514/15

ABSTRACT:

Adesh is a synthetic peptide consisting of at least the first four amino acids from the N-terminal of the sequence N L G E H P V C D S T D T W V (SEQ. ID. NO.: 1) and no more than 25 amino acids total. The synthetic peptide mimics the biological properties of nerve growth factor (NGF) consisting of 116 amino acids and is advocated to treat Down Syndrome (DS) and schizophrenia. It is believed that these neuro-degenerative diseases are linked with inadequate neurotrophic factors.



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☐ 13. Document ID: US 20040072160 A1

L16: Entry 13 of 131 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072160
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072160 A1

TITLE: Molecular toxicology modeling

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mendrick, Donna | Gaithersburg | MD | US | |
| Porter, Mark | Gaithersburg | MD | US | |
| Johnson, Kory | Gaithersburg | MD | US | |
| Higgs, Brandon | Gaithersburg | MD | US | |
| Castle, Arthur | Gaithersburg | MD | US | |
| Elashoff, Michael | Gaithersburg | MD | US | |

US-CL-CURRENT: 435/6; 435/91.2, 436/84

ABSTRACT:

The present invention is based on the elucidation of the global changes in gene expression and the identification of toxicity markers in tissues or cells exposed to a known renal toxin. The genes may be used as toxicity markers in drug screening and toxicity assays. The invention includes a database of genes characterized by toxin-induced differential expression that is designed for use with microarrays and other solid-phase probes.

☐ 14. Document ID: US 20040019921 A1

L16: Entry 14 of 131 File: PGPB Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040019921
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040019921 A1

TITLE: Non-human mammal with disrupted or modified MIF gene, and uses thereof

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Fingerle-Rowson, Gunter R. | Long Beach | NY | US | |
| Delaney, Patrick R. | | | US | |

US-CL-CURRENT: 800/18

ABSTRACT:

The present invention demonstrates transgenic mammals, particularly transgenic mice, having a genomic disruption or mutation affecting the MIF gene. The invention is also directed to use of the transgenic mice in developing therapies to inflammatory or neoplastic disorders involving MIF cellular activity.



☐ 15. Document ID: US 20040005577 A1

L16: Entry 15 of 131 File: PGPB Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040005577
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040005577 A1

TITLE: Nucleic acids, proteins, and antibodies

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Rosen, Craig A. | Laytonsville | MD | US | |
| Ruben, Steven M. | Olney | MD | US | |
| Barash, Steven C. | Rockville | MD | US | |

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and

antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.



☐ 16. Document ID: US 20040002584 A1

L16: Entry 16 of 131 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002584
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002584 A1

TITLE: Proteins, polynucleotides encoding them and methods of using the same

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Pena, Carol E. A. | New Haven | CT | US | |
| Shimkets, Richard A. | Guilford | CT | US | |
| Li, Li | Branford | CT | US | |
| Shenoy, Suresh G. | Branford | CT | US | |
| Kekuda, Ramesh | Norwalk | CT | US | |
| Spytek, Kimberly A. | New Haven | CT | US | |
| Vernet, Corine A.M. | Branford | CT | US | |
| Malyankar, Uriel M. | Branford | CT | US | |
| Guo, Xiaojia (Sasha) | Branford | CT | US | |
| Gusev, Vladimir Y. | Madison | CT | US | |
| Casman, Stacie J. | North Haven | CT | US | |
| Boldog, Ferenc L. | North Haven | CT | US | |
| Furtak, Katarzyna | Ansonia | CT | US | |
| Tchernev, Velizar T. | Branford | CT | US | |
| Patturajan, Meera | Branford | CT | US | |
| Gangolli, Esha A. | Madison | CT | US | |
| Padigaru, Muralidhara | Branford | CT | US | |
| Liu, Xiaohong | Branford | CT | US | |
| Baumgartner, Jason C. | New Haven | CT | US | |
| Gerlach, Valerie | Branford | CT | US | |
| Spaderna, Steven K. | Berlin | CT | US | |
| Zerhusen, Bryan D. | Branford | CT | US | |

US-CL-CURRENT: 530/350

ABSTRACT:

Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.



☐ 17. Document ID: US 20040002120 A1

L16: Entry 17 of 131 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002120
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002120 A1

TITLE: Therapeutic polypeptides, nucleic acids encoding same, and methods of use

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Kekuda, Ramesh | Danbury | CT | US | |
| Tchernev, Velizar T. | Branford | CT | US | |
| Liu, Xiaohong | Branford | CT | US | |
| Spytek, Kimberly A. | New Haven | CT | US | |
| Patturajan, Meera | Branford | CT | US | |
| Burgess, Catherine E. | Wethersfield | CT | US | |
| Vernet, Corine A.M. | Branford | CT | US | |
| Li, Li | Branford | CT | US | |
| Gorman, Linda | Branford | CT | US | |
| Malyankar, Uriel M. | Branford | CT | US | |
| Boldog, Ferenc L. | North Haven | CT | US | |
| Guo, Xiaojia (Sasha) | Branford | CT | US | |
| Shenoy, Suresh G. | Branford | CT | US | |
| Padigaru, Muralidhara | Branford | CT | US | |
| Taupier, Raymond J. JR. | East Haven | CT | US | |
| Miller, Charles E. | Guilford | CT | US | |
| Casman, Stacie J. | North Haven | CT | US | |
| Pena, Carol E. A. | New Haven | CT | US | |
| Gangolli, Esha A. | Madison | CT | US | |
| Gusev, Vladimir Y. | Madison | CT | US | |
| Smithson, Glennda | Guilford | CT | US | |
| Zerhusen, Bryan D. | Branford | CT | US | |
| Gerlach, Valerie | Branford | CT | US | |
| Pochart, Pascale F-J | Madison | CT | US | |
| Fernandes, Elma R. | Branford | CT | US | |
| Shimkets, Richard A. | Guilford | CT | US | |
| Rastelli, Luca | Guilford | CT | US | |

| | | | |
|---|---|---|---|
| Spaderna, Steven K. | Berlin | CT | US |
| LaRochelle, William J. | Madison | CT | US |
| Zhong, Mei | Branford | CT | US |
| Khramtsov, Nikolai V. | Branford | CT | US |
| Voss, Edward Z. | Wallingford | CT | US |
| Herrmann, John L. | Guilford | CT | US |

US-CL-CURRENT: 435/7.2; 435/320.1, 435/325, 435/69.1, 514/12, 530/350, 536/23.5

ABSTRACT:

Disclosed herein are nucleic acid sequences that encode G-coupled protein-receptor related polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.



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☐ 18. Document ID: US 20030219718 A1

L16: Entry 18 of 131 File: PGPB Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219718
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030219718 A1

TITLE: Inhibitors of the S100-p53 protein-protein interaction and method of inhibiting cancer employing the same

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Weber, David J. | Towson | MD | US | |
| Markowitz, Joseph | Baltimore | MD | US | |
| Carrier, France | Silver Spring | MD | US | |
| MacKerell, Alexander D. | Baltimore | MD | US | |

US-CL-CURRENT: 435/4; 514/211.11, 514/404, 514/471, 514/635, 514/679

ABSTRACT:

Compounds that bind S100 and inhibit the S100-p53 protein-protein interaction and activate the tumor suppressor activity of p53, and thus which have an antineoplastic effect are disclosed, as well as methods for identifying these compounds, compositions comprising the same, and methods of using the same to treat cancer.



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☐ 19. Document ID: US 20030207393 A1

L16: Entry 19 of 131 File: PGPB Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030207393
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030207393 A1

TITLE: Cbp86, a sperm specific protein

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Herr, John C. | Charlottesville | VA | US | |
| Buer, Sen | Lilburn | GA | US | |
| Mandal, Arabinda | Charlottesville | VA | US | |
| Wolkowicz, Michael | Charlottesville | VA | US | |
| Naaby-Hansen, Soren | London | | GB | |

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 530/388.1, 536/23.5

ABSTRACT:

The present invention relates to acidic (pI 4.0) 86 kDA isoforms of a novel, polymorphic, testis-specific protein designated calcium binding protein 86 (CBP86). This protein is tyrosine phosphorylated during in vitro capacitation and bound calcium.sup.45 on 2-D gels, the latter effect abolished by dephosphorylation with alkaline phosphatase. CBP86 localizes to the principal piece of the human sperm flagellum in association with the fibrous sheath and is the first demonstration of a sperm protein that both oligomerizes and gains calcium binding capacity in a tyrosine phosphorylation dependent manner during capacitation.



☐ 20. Document ID: US 20030203404 A1

L16: Entry 20 of 131 File: PGPB Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030203404
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030203404 A1

TITLE: Bioluminescence resonance energy transfer( bret) system with broad spectral resolution between donor and acceptor emission wavelengths and its use

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Joly, Erik | Blainville | | CA | |

US-CL-CURRENT: 435/7.1; 435/287.2, 435/320.1, 435/325, 435/69.1, 435/8

ABSTRACT:

The present invention provides a bioluminescence resonance energy transfer (BRET) detection system characterised by a broad spectral resolution between donor and acceptor emission wavelengths. The broad spectral resolution between the emission wavelength of the bioluminescent donor protein and the fluorescent acceptor molecule results in an increased signal-to-base ratio and dynamic range in comparison with a basic BRET system.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 21. Document ID: US 20030199000 A1

L16: Entry 21 of 131 File: PGPB Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199000
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030199000 A1

TITLE: Diagnostic markers of stroke and cerebral injury and methods of use thereof

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Valkirs, Gunars E. | Escondido | CA | US | |
| Dahlen, Jeffery | San Diego | CA | US | |
| Kirchick, Howard J. | San Diego | CA | US | |
| Buechler, Kenneth F. | Rancho Santa Fe | CA | US | |

US-CL-CURRENT: 435/7.1; 435/287.2

ABSTRACT:

The present invention relates to methods for the diagnosis and evaluation of stroke and transient ischemic attacks. A variety of markers are disclosed for assembling a panel for such diagnosis and evaluation. In various aspects, the invention provides methods for early detection and differentiation of stroke types and transient ischemic attacks, for determining the prognosis of a patient presenting with stroke symptoms, and identifying a patient at risk for cerebral vasospasm. Invention methods provide rapid, sensitive and specific assays to greatly increase the number of patients that can receive beneficial stroke treatment and therapy, and reduce the costs associated with incorrect stroke diagnosis.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 22. Document ID: US 20030198970 A1

L16: Entry 22 of 131 File: PGPB Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198970
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030198970 A1

TITLE: Genostics

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Roberts, Gareth Wyn | Cambs | | GB | |

US-CL-CURRENT: 435/6; 536/24.3

ABSTRACT:

People vary enormously in their response to disease and the also in their response to therapeutic interventions aimed at ameliorating the disease process and progression. However, the provision of medical care and medical management is centered around observations and protocols developed in clinical trials on groups or cohorts of patients. This group data is used to derive a standardised method of treatment which is subsequently applied on an individual basis. There is considerable evidence that a significant factor underlying the individual variability in response to disease, therapy and prognosis lies in a person's genetic make-up. There have been numerous examples relating that polymorphisms within a given gene can alter the functionality of the protein encoded by that gene thus leading to a variable physiological response. In order to bring about the integration of genomics into medical practice and enable design and building of a technology platform which will enable the everyday practice of molecular medicine a way must be invented for the DNA sequence data to be aligned with the identification of genes central to the induction, development, progression and outcome of disease or physiological states of interest. According to the invention, the number of genes and their configurations (mutations and polymorphisms) needed to be identified in order to provide critical clinical information concerning individual prognosis is considerably less than the 100,000 thought to comprise the human genome. The identification of the identity of the core group of genes enables the invention of a design for genetic profiling technologies which comprises of the identification of the core group of genes and their sequence variants required to provide a broad base of clinical prognostic information--`genostics`. The "GenosticTM" profiling of patients and persons will radically enhance the ability of clinicians, healthcare professionals and other parties to plan and manage healthcare provision and the targeting of appropriate healthcare resources to those deemed most in need. The use of our invention could also lead to a host of new applications for such profiling technologies, such as identification of persons with particular work or environment related risk, selection of applicants for employment, training or specific opportunities or for the enhancing the planning and organisation of health services, education services and social services.



☐ 23. Document ID: US 20030194704 A1

L16: Entry 23 of 131 File: PGPB Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030194704
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030194704 A1

TITLE: Human genome-derived single exon nucleic acid probes useful for gene expression analysis two

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Penn, Sharron Gaynor | San Mateo | CA | US | |
| Rank, David Russell | Fremont | CA | US | |
| Hanzel, David Kagen | Palo Alto | CA | US | |

US-CL-CURRENT: 435/6; 536/24.3

ABSTRACT:

Methods and apparatus for predicting, confirming and displaying functional regions from genomic sequence data are used to identify 13,700 unique human genome-derived single exon probes useful for gene expression analysis, particularly gene expression analysis by microarray. Also presented are genome-derived single exon microarrays that include such probes, peptides encoded by the exons, and antibodies thereto.



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☐ 24. Document ID: US 20030176437 A1

L16: Entry 24 of 131 File: PGPB Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030176437
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030176437 A1

TITLE: Anti-inflammatory and protein kinase inhibitor compositions and related methods for downregulation of detrimental cellular responses and inhibition of cell death

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Watterson, D.M. | Chicago | IL | US | |
| Sawkar, Anu R. | La Jolla | CA | US | |
| Lukas, Thomas J. | Evanston | IL | US | |
| Mirzoeva, Salida | Chicago | IL | US | |
| Van Eldik, Linda J. | Chicago | IL | US | |
| Hibert, Marcel | Eschau | IL | FR | |
| Velentza, Anastasia | Chicago | IL | US | |
| Zasadzki, Magdalena | Arlington Heights | | US | |
| Haiech, Jacques | Strasbourg | | FR | |
| Bourguignon, Jean-Jacques | Illkirch Graffenstaden | | FR | |

US-CL-CURRENT: 514/252.02; 544/224, 544/238

ABSTRACT:

A novel class of pyridazine compositions and related methods of use.

☐ 25. Document ID: US 20030175895 A1

L16: Entry 25 of 131 File: PGPB Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175895
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030175895 A1

TITLE: Chemokine

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Lesslauer, Werner | Riehen | | CH | |
| Utans-Schneitz, Ulrike | Basle | | CH | |

US-CL-CURRENT: 435/69.5; 435/252.3, 435/325, 530/351, 536/23.5

ABSTRACT:

The present invention relates to the discovery of novel genes and proteins, which function in pathways involved in brain pathogenesis. In particular, the novel genes and proteins relate to inflammatory tissue responses caused by brain injuries such trauma, ischemia or autoimmune-inflammation or other diseases or processes related to neuroinflammation. The compounds disclosed in the present invention are useful as therapeutics, diagnostics and in screening assays.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 26. Document ID: US 20030157554 A1

L16: Entry 26 of 131 File: PGPB Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030157554
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030157554 A1

TITLE: Protein-protein complexes and methods of using same

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Giot, Loic | Madison | CT | US | |
| Eisen, Andrew | Rockville | MD | US | |
| Lewin, David A. | New Haven | CT | US | |

US-CL-CURRENT: 435/7.1; 435/226, 435/23

ABSTRACT:

The invention provides complexes of at least two polypeptides, and methods of using the same. Purified complexes of two polypeptides are provided, including chimeric complexes, and chimeric polypeptides and complexes thereof are also provided, as are nucleic acids encoding chimeric polypeptides and vectors and cells containing the same. Also provided are methods of identifying agents that disrupt polypeptide complexes, methods of identifying complex or polypeptide in a sample, and for removing the same, methods of determining altered expression of a polypeptide in a subject, and methods of treating/preventing disorders involving altered levels of complex or polypeptide.



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☐ 27. Document ID: US 20030152570 A1

L16: Entry 27 of 131 File: PGPB Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030152570
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030152570 A1

TITLE: Method for retarding or precluding alzheimer's dementia

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettelby | | CA | |
| Furesz, Shirley | Cambridge | | CA | |

US-CL-CURRENT: 424/140.1

ABSTRACT:

A method for treating a condition related to the development of Alzheimer's disease (AD) is disclosed. The method involves the removal of circulating autoantibodies of a biochemical marker or markers, specifically human glial fibrillary acidic protein (GFAP) and glyceraldehyde-3-phosphate dehydrogenase (GAPDH), from the sera of a patient in an amount effective to reduce or eliminate phagocytosis of astrocytic cells. The invention further includes a process of immune system modulation effective for autoantibody removal.



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☐ 28. Document ID: US 20030143539 A1

L16: Entry 28 of 131 File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143539
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143539 A1

TITLE: Gene expression profiling of primary breast carcinomas using arrays of candidate genes

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Bertucci, Francois | Marseille | | FR | |
| Houlgatte, Remi | Marseille | | FR | |
| Birnbaum, Daniel | Marseille | | FR | |
| Nguyen, Catherine | Marseille | | FR | |
| Viens, Patrice | Marseille | | FR | |
| Fert, Vincent | Allauch | | FR | |

US-CL-CURRENT: 435/6; 536/23.1

ABSTRACT:

A polynucleotide library useful in the molecular characterization of a carcinoma, the library including a pool of polynucleotide sequences or subsequences thereof wherein the sequences or subsequences are overexpressed in tumor cells, further wherein the sequences or subsequences correspond substantially to any of the polynucleotide sequences set forth in any of SEQ ID NOS: 1-468 or the complement thereof.



☐ 29. Document ID: US 20030139358 A1

L16: Entry 29 of 131 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030139358
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030139358 A1

TITLE: Novel human proteins, polynucleotides encoding them and methods of using the same

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Spytek, Kimberly A. | New Haven | CT | US | |
| Padigaru, Muralidhara | Branford | CT | US | |
| Majumder, Kumud | Stamford | CT | US | |
| MacDougall, John R. | Hamden | CT | US | |
| Stone, David J. | Guilford | CT | US | |
| Gangolli, Esha A. | Madison | CT | US | |
| Spaderna, Steven K. | Berlin | CT | US | |
| Smithson, Glennda | Branford | CT | US | |

US-CL-CURRENT: 514/44; 435/183, 435/320.1, 435/6, 435/69.1, 435/7.1, 514/12, 536/23.2

ABSTRACT:

The invention provides polypeptides, designated herein as POLYX polypeptides, as well as polynucleotides encoding POLYX polypeptides, and antibodies that

immunospecifically-bind to POLYX polypeptide or polynucleotide, or derivatives, variants, mutants, or fragments thereof. The invention additionally provides methods in which the POLYX polypeptide, polynucleotide, and antibody are used in the detection, prevention, and treatment of a broad range of pathological states.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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☐ 30. Document ID: US 20030130827 A1

L16: Entry 30 of 131 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130827
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030130827 A1

TITLE: Protein design automation for protein libraries

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Bentzien, Joerg | White Plains | NY | US | |
| Dahiyat, Bassil I. | Altadena | CA | US | |
| Desjarlais, John R. | Pasadena | CA | US | |
| Hayes, Robert J. | Pasadena | CA | US | |
| Vielmetter, Jost | Altadena | CA | US | |

US-CL-CURRENT: 703/11; 435/7.1

ABSTRACT:

The invention relates to the use of protein design automation (PDA.TM.) to generate computationally prescreened secondary libraries of proteins, and to methods and compositions utilizing the libraries.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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☐ 31. Document ID: US 20030129134 A1

L16: Entry 31 of 131 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129134
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030129134 A1

TITLE: Method of monitoring neuroprotective treatment

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Chenard, Bertrand L. | Waterford | CT | US | |

| | | | |
|---|---|---|---|
| Friedman, David L. | Madison | CT | US |
| Kimmel, Lida | Chester | CT | US |
| Nelms, Linda F. | Gales Ferry | CT | US |
| Silber, B. Michael | Madison | CT | US |
| Soares, Holly D. | Noank | CT | US |
| Frost White, Walter JR. | Ledyard | CT | US |

US-CL-CURRENT: 424/9.3; 435/7.92

ABSTRACT:

Methods for monitoring and evaluating the efficacy of neuroprotective treatment of a patient suffering from neurological damage by measuring the amount of at least one biomarker in a biological sample taken from the patient during or after treatment.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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☐ 32. Document ID: US 20030125246 A9

L16: Entry 32 of 131 File: PGPB Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030125246
PGPUB-FILING-TYPE: corrected
DOCUMENT-IDENTIFIER: US 20030125246 A9

TITLE: Nucleic acids, proteins, and antibodies

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Rosen, Craig A. | Laytonsville | MD | US | |
| Ruben, Steven M. | Olney | MD | US | |
| Barash, Steven C. | Rockville | MD | US | |

US-CL-CURRENT: 514/12; 435/183, 435/320.1, 435/325, 435/69.1, 536/23.1

ABSTRACT:

The present invention relates to novel respiratory system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "respiratory system antigens," and the use of such respiratory system antigens for detecting disorders of the respiratory system, particularly the presence of cancer of respiratory system tissues and cancer metastases. More specifically, isolated respiratory system associated nucleic acid molecules are provided encoding novel respiratory system associated polypeptides. Novel respiratory system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human respiratory system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the respiratory system, including cancer of respiratory system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the

production and function of the polypeptides of the present invention.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

☐ 33. Document ID: US 20030119074 A1

L16: Entry 33 of 131 File: PGPB Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119074
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119074 A1

TITLE: Diagnosis and treatment of dementia utilizing thrombospondin

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Zhang, Rulin | Toronto | | CA | |

US-CL-CURRENT: 435/7.9

ABSTRACT:

A method for diagnosing various forms of dementia, including MCI, and Alzheimer's disease(AD) is disclosed. The method involves directly detecting the presence of a biochemical marker, specifically thrombospondin, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to thrombospondin, or alternatively an autoantibody to a thrombospondin antibody.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

☐ 34. Document ID: US 20030119064 A1

L16: Entry 34 of 131 File: PGPB Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119064
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119064 A1

TITLE: Diagnostic markers of stroke and cerebral injury and methods of use thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Valkirs, Gunars E. | Escondido | CA | US | |
| Dahlen, Jeffrey R. | San Diego | CA | US | |
| Kirchick, Howard J. | San Diego | CA | US | |
| Buechler, Kenneth F. | Rancho Santa Fe | CA | US | |

US-CL-CURRENT: 435/7.1; 435/7.2

ABSTRACT:

The present invention relates to methods for the diagnosis and evaluation of stroke and transient ischemic attacks. In a particular aspect, patient samples are analyzed for the presence or amount of a panel of markers comprising one or more specific markers for cerebral injury and one or more non-specific markers for cerebral injury. In an alternative aspect, samples are analyzed for B-type natriuretic peptide. A variety of markers are disclosed for assembling a panel for such diagnosis and evaluation. In various aspects, the invention provides methods for early detection and differentiation of stroke types and transient ischemic attacks, for determining the prognosis of a patient presenting with stroke symptoms, and identifying a patient at risk for cerebral vasospasm. Invention methods provide rapid, sensitive and specific assays to greatly increase the number of patients that can receive beneficial stroke treatment and therapy, and reduce the costs associated with incorrect stroke diagnosis.



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☐ 35. Document ID: US 20030104635 A1

L16: Entry 35 of 131 File: PGPB Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104635
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030104635 A1

TITLE: Screening methods

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jakobsen, Bent Karsten | Wantage | | GB | |

US-CL-CURRENT: 436/518; 435/7.9

ABSTRACT:

The present invention provides methods for sequentially screening for compounds with the potential to interfere with low affinity receptor-ligand contacts using an interfacial optical assay, such as surface plasmon resonance (SPR). The method comprises contacting a candidate compound with an immobilized receptor, contacting the receptor, which may or may not have the candidate compound bound to it, with the ligand and detecting by interfacial optical assay whether or not the ligand or ligand-compound complex has bound to the receptor or receptor-compound complex. If the ligand binds, the method shows that the compound does not inhibit the receptor-ligand interaction. If the ligand does not bind, the method shows that the compound inhibits the receptor-ligand interaction. The method is particularly useful for screening for inhibitors of the interaction between MHC/peptide complex and T cell receptor, MHC/peptide complex and CD8 coreceptor or MHC/peptide complex and CD4 coreceptor.

☐ 36. Document ID: US 20030104445 A1

L16: Entry 36 of 131 File: PGPB Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104445
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030104445 A1

TITLE: RNA dependent RNA polymerase mediated protein evolution

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Hayes, Robert J. | Pasadena | CA | US | |
| Aguinaldo, Anna-Marie | Altadena | CA | US | |

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 435/7.1, 435/91.2, 530/350, 536/23.2

ABSTRACT:

The invention relates to the use of RNA dependent RNA polymerase to generate libraries of proteins, and to methods of making and methods and compositions utilizing the libraries.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw Des

☐ 37. Document ID: US 20030100503 A1

L16: Entry 37 of 131 File: PGPB May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100503
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030100503 A1

TITLE: Neurogenic compositions and methods

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Lukanidin, Eugene | Copenhagen | | DK | |
| Bock, Elisabeth Marianne | Charlottenlund | | DK | |
| Berezin, Vladimir | Copenhagen N. | | DK | |

US-CL-CURRENT: 514/12; 530/350

ABSTRACT:

The present invention has found that the Mts1 protein is expressed in white matter astrocytes in the spinal cord. Such expression is significantly increased following sciatic nerve injury or dorsal root injury, particularly in astrocytes surrounding

dorsal funiculus containing the central processes of the injured primary sensory neurons. The present invention has further demonstrated that Mts1 proteins administered extracellularly promote neurite outgrowth from neuronal cells. Based on these surprising findings, the present invention provides compositions and methods that are useful for the treatment of various neurological conditions characterized by death, degeneration or injury of neuronal cells.



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☐ 38. Document ID: US 20030100038 A1

L16: Entry 38 of 131 File: PGPB May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100038
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030100038 A1

TITLE: Diagnostic assay for stroke

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Hochstrasser, Denis Francois | Geneva | | CH | |
| Sanchez, Jean-Charles | Geneva | | CH | |
| Zimmerman, Catherine Gabrielle | Geneva | | CH | |

US-CL-CURRENT: 435/7.92

ABSTRACT:

Heart and brain fatty acid binding proteins (H-FABP, B-FABP) are markers for stroke. The invention provides a diagnostic assay for either of these markers, preferably by ELISA using anti-H-FABP or B-FABP antibody. Since H-FABP is also a marker for acute myocardial infarction (AMI), to distinguish stroke from AMI requires an assay specific to AMI, e.g. using troponin-I or creatine kinase-MB as a marker, also to be carried out.



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☐ 39. Document ID: US 20030092089 A1

L16: Entry 39 of 131 File: PGPB May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092089
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030092089 A1

TITLE: Method for diagnosing multiple sclerosis and an assay therefore

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Moscarello, Mario Anthony | Toronto | | CA | |
| Chamczuk, Andrea | Toronto | | CA | |

US-CL-CURRENT: 435/7.92

ABSTRACT:

This invention is directed toward a serum/plasma assay for the diagnosis and subsequent monitoring of patients with multiple sclerosis (MS). Assay performance characteristics indicate that the assay is accurate and repeatable. Using blood from patients with clinically definite multiple sclerosis, a clinical sensitivity of 77% and a specificity of 95% has been achieved through the measurement of circulating myelin basic protein autoantibodies. The assay provides a simple, rapid, and minimally invasive tool for the diagnosis and monitoring of progression of MS.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 40. Document ID: US 20030064416 A1

L16: Entry 40 of 131 File: PGPB Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030064416
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030064416 A1

TITLE: Process for differential diagnosis of Alzheimer's dementia in patients exhibiting mild cognitive impairment

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Takahashi, Miyoko | North York | | CA | |

US-CL-CURRENT: 435/7.21

ABSTRACT:

A method for determining those patients suffering from mild cognitive impairment (MCI) who have a likelihood of progressing to Alzheimer's disease (AD) is disclosed. The method involves directly detecting the presence of a biochemical marker, specifically human glutamine synthetase, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to human glutamine synthetase. In addition, a method for distinguishing between AD and non-AD dementia is disclosed.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 41. Document ID: US 20030054414 A1

L16: Entry 41 of 131 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054414
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054414 A1

TITLE: Diagnosis and treatment of early pre-type-1 diabetes utilizing glial fibrillary acidic protein

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Li, Xiaomao | Toronto | | CA | |

US-CL-CURRENT: 435/7.9; 436/514, 530/387.2

ABSTRACT:

This invention relates to the treatment and diagnosis of Type-1 Diabetes (T1D); particularly to the use of glial fibrillary acidic protein (GFAP) as a mediator of the disease; and most particularly to GFAP binding proteins useful for prediabetes screening and/or staging.



☐ 42. Document ID: US 20030040602 A1

L16: Entry 42 of 131 File: PGPB Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040602
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030040602 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1406 daltons

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular

sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 43. Document ID: US 20030032663 A1

L16: Entry 43 of 131 File: PGPB Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032663
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030032663 A1

TITLE: Benzimidazole derivatives as therapeutic agents

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| M. Mjalli, Adnan M. | Jamestown | NC | US | |
| Gopalaswamy, Ramesh | Jamestown | NC | US | |

US-CL-CURRENT: 514/394; 548/304.4

ABSTRACT:

This invention provides certain compounds, methods of their preparation, pharmaceutical compositions comprising the compounds, and their use in treating human or animal disorders. The compounds of the invention are useful as modulators of the interaction between the receptor for advanced glycated end products (RAGE) and its ligands, such as advanced glycated end products (AGEs), S100/calgranulin/EN-RAGE, .beta.-amyloid and amphoterin, and for the management, treatment, control, or as an adjunct treatment for diseases in humans caused by RAGE. Such diseases or disease states include acute and chronic inflammation, the development of diabetic late complications such as increased vascular permeability, nephropathy, atherosclerosis, and retinopathy, the development of Alzheimer's disease, erectile dysfunction, and tumor invasion and metastasis.



☐ 44. Document ID: US 20030032181 A1

L16: Entry 44 of 131 File: PGPB Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032181
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030032181 A1

TITLE: Production of radial glial cells

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Weiss, Samuel | Calgary | | CA | |
| Gregg, Christopher | Calgary | | CA | |

US-CL-CURRENT: 435/368

ABSTRACT:

The present invention relates to a method of producing radial glial cells from neural stem cells, particularly by contacting neural stem cells with epidermal growth factor (EGF), fibroblast growth factor 2 (FGF-2) and/or TGF.alpha.. Leukemia inhibitory factor (LIF) and ciliary neurotrophic factor (CNTF) can optionally be added to enhance the effect of EGF, FGF-1 or TGF.alpha.. Also provided are methods of producing radial glial cells from ependymal cells, as well as methods of proliferating ependymal cells.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 45. Document ID: US 20030031681 A1

L16: Entry 45 of 131 File: PGPB Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030031681
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030031681 A1

TITLE: Combined growth factor-deleted and thymidine kinase-deleted vaccinia virus vector

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| McCart, J. Andrea | Toronto | PA | CA | |
| Bartlett, David L. | Pittsburgh | MD | US | |
| Moss, Bernard | Bethesda | | US | |

US-CL-CURRENT: 424/186.1; 435/235.1, 435/456

ABSTRACT:

A composition of matter comprising a vaccinia virus expression vector with a negative thymidine kinase phenotype and a negative vaccinia virus growth factor phenotype.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 46. Document ID: US 20030027234 A1

L16: Entry 46 of 131 File: PGPB Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027234

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030027234 A1

TITLE: Methods for detecting Down's syndrome

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Pandian, Murugan R. | Mission Viejo | CA | US | |
| Lu, Julie Y. | Mission Viejo | CA | US | |

US-CL-CURRENT: 435/7.93

ABSTRACT:

Methods for detecting Down's syndrome in a fetus of a pregnant woman include screening serum samples obtained from the pregnant woman for abnormal levels of invasive trophoblast antigen. In particular, serum levels of invasive trophoblast antigen are compared to a standard. The methods can also be practiced using at least one additional marker.



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☐ 47. Document ID: US 20030022381 A1

L16: Entry 47 of 131 File: PGPB Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022381
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030022381 A1

TITLE: Methods for detecting pregnancy

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Pandian, Murugan R. | Mission Viejo | CA | US | |
| Lu, Julie Y. | Mission Viejo | CA | US | |

US-CL-CURRENT: 436/65; 422/52, 422/61, 436/172, 436/56, 436/814, 436/906

ABSTRACT:

Methods for detecting pregnancy in a woman comprise screening a biological sample of the woman for pregnancy markers. The methods of the invention include chemiluminescent assays for the pregnancy markers. The methods of the invention also comprise utilizing at least two capture antibodies that specifically bind different epitopes of the pregnancy marker in one assay. The methods of the invention permit detection of pregnancy within about 7 days after ovulation or implantation.

☐ 48. Document ID: US 20030013845 A1

L16: Entry 48 of 131 File: PGPB Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013845
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030013845 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1845 daltons

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 49. Document ID: US 20030008398 A1

L16: Entry 49 of 131 File: PGPB Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030008398
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030008398 A1

TITLE: Self-enhancing, pharmacologically controllable expression systems

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mueller, Rolf | Marburg | | DE | |
| Sedlacek, Hans-Harald | Marburg | | DE | |

US-CL-CURRENT: 435/455; 435/320.1, 536/23.2

ABSTRACT:

Self-enhancing, pharmacologically controllable expression systems The invention relates to a nucleic acid construct which constitutes a self-enhancing expression system and which comprises the following components:

at least one first structural gene that encodes an active compound;

at least one second structural gene that encodes a transcription factor protein; and

at least one activation sequence comprised of at least one sequence that binds the transcription factor protein and at least one promoter sequence;

wherein each activation sequence activates the expression of a structural gene and the expression of the transcription factor protein; and to the use of the nucleic acid construct for preparing a drug for treating diseases.



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☐ 50. Document ID: US 20030004307 A1

L16: Entry 50 of 131 File: PGPB Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004307
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030004307 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1211 daltons

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

☐ 51. Document ID: US 20020193432 A1

L16: Entry 51 of 131 File: PGPB Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020193432
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020193432 A1

TITLE: Carboxamide derivatives as therapeutic agents

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mjalli, Adnan M. M. | Jamestown | NC | US | |
| Andrews, Robert C. | Jamestown | NC | US | |
| Gopalaswamy, Ramesh | Jamestown | NC | US | |
| Wysong, Chris | Winston-Salem | NC | US | |

US-CL-CURRENT: 514/478; 514/617, 514/626, 560/159, 564/161

ABSTRACT:

This invention provides certain compounds, methods of their preparation, pharmaceutical compositions comprising the compounds, and their use in treating human or animal disorders. The compounds of the invention are useful as modulators of the interaction between the receptor for advanced glycated end products (RAGE) and its ligands, such as advanced glycated end products (AGEs), S100/calgranulin/EN-RAGE, .beta.-amyloid and amphoterin, and for the management, treatment, control, or as an adjunct treatment for diseases in humans caused by RAGE. Such diseases or disease states include acute and chronic inflammation, the development of diabetic late complications such as increased vascular permeability, nephropathy, atherosclerosis, and retinopathy, the development of Alzheimer's disease, erectile dysfunction, and tumor invasion and metastasis.



☐ 52. Document ID: US 20020192217 A1

L16: Entry 52 of 131 File: PGPB Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192217
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020192217 A1

TITLE: Methods for regulation of immune responses to conditions involving mediator-induced pathology

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Calandra, Thierry | Lausanne | | CH | |
| Roger, Thierry | Lausanne | | CH | |
| Glauser, Michel P. | Lausanne | | CH | |

US-CL-CURRENT: 424/145.1; 514/44

ABSTRACT:

The present invention relates to methods for inhibiting the release and/or biological activity of the cytokine macrophage migration inhibitory factor (MIF). In particular, the invention relates to the uses of such methods for the treatment of various conditions involving mediator-induced diseases or pathology, which include, but are not limited to sepsis, severe sepsis, septic shock, inflammation, graft versus host disease, and/or autoimmune diseases.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

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☐ 53. Document ID: US 20020172676 A1

L16: Entry 53 of 131 File: PGPB Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020172676
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020172676 A1

TITLE: Method of treatment of alzheimer's disease and device therefor

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Furesz, Shirley | Cambridge | | CA | |

US-CL-CURRENT: 424/140.1; 604/5.02

ABSTRACT:

A method and device for treating Alzheimer's disease (AD) is disclosed. The method involves the removal of circulating autoantibodies of a biochemical marker or markers, specifically human glial fibrillary acidic protein (GFAP) and glyceraldehyde-3-phosphate dehydrogenase (GAPDH), in bodily fluid, preferably blood or a blood product. The invention further includes a device or process of immune system modulation effective for autoantibody removal.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

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☐ 54. Document ID: US 20020169278 A1

L16: Entry 54 of 131 File: PGPB Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169278
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020169278 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1690 daltons

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/300; 435/69.3

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 55. Document ID: US 20020161188 A1

L16: Entry 55 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161188
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161188 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1020 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/328

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 56. Document ID: US 20020161187 A1

L16: Entry 56 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161187
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161187 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1097 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 57. Document ID: US 20020161186 A1

L16: Entry 57 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161186
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161186 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1449 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 58. Document ID: US 20020161185 A1

L16: Entry 58 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161185
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161185 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1206 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 59. Document ID: US 20020161184 A1

L16: Entry 59 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161184
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161184 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1348 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 60. Document ID: US 20020161183 A1

L16: Entry 60 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161183
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161183 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2267 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 61. Document ID: US 20020161182 A1

L16: Entry 61 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161182
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161182 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1865 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 62. Document ID: US 20020161181 A1

L16: Entry 62 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161181
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161181 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2021 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 63. Document ID: US 20020161180 A1

L16: Entry 63 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161180
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161180 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1896 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 64. Document ID: US 20020161179 A1

L16: Entry 64 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161179 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1465 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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☐ 65. Document ID: US 20020161177 A1

L16: Entry 65 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161177
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161177 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2937 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 530/324

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc

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☐ 66. Document ID: US 20020160958 A1

L16: Entry 66 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160958
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160958 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1521 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 514/14; 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 67. Document ID: US 20020160533 A1

L16: Entry 67 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160533
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160533 A1

TITLE: Biopolymer marker indicative of disease state having a molecular of weight of 1525 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 436/518; 422/61, 436/173, 436/56

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 68. Document ID: US 20020160532 A1

L16: Entry 68 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160532
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160532 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1998 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 436/518

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 69. Document ID: US 20020160531 A1

L16: Entry 69 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160531
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160531 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2753 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 436/518; 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 70. Document ID: US 20020160529 A1

L16: Entry 70 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160529
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160529 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1562 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |

US-CL-CURRENT: 436/518; 422/61, 436/173, 436/56

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 71. Document ID: US 20020160528 A1

L16: Entry 71 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160528
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160528 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1350 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 436/518; 422/61, 436/173, 436/56

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 72. Document ID: US 20020160434 A1

L16: Entry 72 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160434
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160434 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1777 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.92; 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



☐ 73. Document ID: US 20020160425 A1

L16: Entry 73 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160425
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160425 A1

TITLE: Process for differential diagnosis of Alzheimer's dementia and device therefor

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Takahashi, Miyoko | North York | | CA | |

US-CL-CURRENT: 435/7.1; 435/7.2

ABSTRACT:

A method for diagnosing Alzheimer's disease(AD) is disclosed. The method involves

directly detecting the presence of a biochemical marker, specifically human glutamine synthetase, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to human glutamine synthetase. In addition, a method for distinguishing between AD and non-AD dementia is disclosed.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 74. Document ID: US 20020160423 A1

L16: Entry 74 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160423
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160423 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1536 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

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☐ 75. Document ID: US 20020160422 A1

L16: Entry 75 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160422
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160422 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1077 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 76. Document ID: US 20020160421 A1

L16: Entry 76 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160421
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160421 A1

TITLE: Method for monitoring and validating stress induction of disease state

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Stanton, Eric B. | Burlington | | CA | |

US-CL-CURRENT: 435/7.1; 435/6, 702/19, 702/20

ABSTRACT:

The present invention provides a biochemically-based methodology for ascertaining the presence and/or verifying the historical release of biopolymers, which have been shown to be indicative of a disease state or are predictive of the development of said disease state.

☐ 77. Document ID: US 20020160420 A1

L16: Entry 77 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160420
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160420 A1

TITLE: Process for diagnosis of physiological conditions by characterization of proteomic materials

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1; 435/7.5, 436/518, 702/19

ABSTRACT:

The present invention discloses the use of proteomic investigation as a diagnostic tool; and particularly teaches the use of proteomic investigative techniques and methodology to determine a proteomic basis for the development and progression of abnormal physiological conditions and the development and characterization of risk assessment, diagnostic and therapeutic means and methodologies.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 78. Document ID: US 20020160419 A1

L16: Entry 78 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160419
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160419 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1793 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

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☐ 79. Document ID: US 20020160418 A1

L16: Entry 79 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160418
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160418 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1949 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

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☐ 80. Document ID: US 20020160417 A1

L16: Entry 80 of 131 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160417
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160417 A1

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1424 daltons

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Jackowski, George | Kettleby | | CA | |
| Stanton, Eric B. | Burlington | | CA | |
| Thatcher, Brad | Toronto | | CA | |
| Vrees, Tammy | Oakville | | CA | |
| Yantha, Jason | Toronto | | CA | |
| Marshall, John | Toronto | | CA | |

US-CL-CURRENT: 435/7.1

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.



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☐ 81. Document ID: US 20020151049 A1

L16: Entry 81 of 131 File: PGPB Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151049
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020151049 A1

TITLE: Self-enhancing, pharmacologically controllable expression systems

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mueller, Rolf | Marburg | | DE | |
| Sedlacek, Hans-Harald | Marburg | | DE | |

US-CL-CURRENT: 435/320.1; 514/44

ABSTRACT:

The invention relates to a nucleic acid construct which constitutes a self-enhancing expression system and which comprises the following components:

at least one first structural gene that encodes an active compound;

at least one second structural gene that encodes a transcription factor protein; and

at least one activation sequence comprised of at least one sequence that binds the transcription factor protein and at least one promoter sequence;

wherein each activation sequence activates the expression of a structural gene and the expression of the transcription factor protein; and to the use of the nucleic acid construct for preparing a drug for treating diseases.



☐ 82. Document ID: US 20020137699 A1

L16: Entry 82 of 131 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137699
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020137699 A1

TITLE: EXPRESSION SYSTEMS COMPRISING CHIMERIC PROMOTERS WITH BINDING SITES FOR RECOMBINANT TRANSCRIPTION FACTORS

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| MUELLER, ROLF | MARBURG | | DE | |
| NETTELBECK, DIRK | MARBURG | | DE | |
| SEDLACEK, HANS-HARALD | MARBURG | | DE | |

US-CL-CURRENT: 514/44; 435/320.1, 435/455, 536/23.1, 536/23.2, 800/21

ABSTRACT:

Expression systems comprising chimeric promoters with binding sites for recombinant transcription factors The present invention relates to a nucleic acid construct which comprises the following components:

Component a): at least one promoter

Component b): a nucleic acid sequence encoding at least one recombinant transactivator whose transcription is activated by component a) and which comprises:

component b1): a nucleic acid sequence encoding a DNA-binding domain

component b2): a nucleic acid sequence encoding a transactivation domain comprising glutamine, serine and threonine

Component c): at least one a nucleic acid sequence sequence for binding the expression product of component b)

Component d): at least one promoter which comprises the CDE-CHR element or the E2FBS-CHR element and whose 5' end is bound, i.e., linked, to the 3' end of component c)

Component e): at least one effector gene whose transcription is activated by the expression product of component b) binding to component c);

to its preparation and its use; to vectors comprising the nucleic acid construct, cells comprising these vectors, and to the use of the nucleic acid construct for the preparation of a medicament.



☐ 83. Document ID: US 20020106726 A1

L16: Entry 83 of 131 File: PGPB Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106726
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020106726 A1

TITLE: Extracellular novel RAGE binding protein (EN-RAGE) and uses thereof

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Schmidt, Ann Marie | Franklin Lakes | NJ | US | |
| Stern, David | Great Neck | NY | US | |

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

The present invention provides for an isolated human EN-RAGE peptide. The present invention also provides for a method for determining whether a compound is capable of inhibiting the interaction of an EN-RAGE peptide with a RAGE peptide, which comprises: (a) admixing: (i) a RAGE peptide or an sRAGE peptide or a fragment of either thereof, (ii) an EN-RAGE peptide or a fragment thereof, and (iii) the compound; (b) measuring the level of interaction between the peptide of step (a) (i) and the peptide of step (a) (ii), and (c) comparing the amount of interaction meausred in step (b) with the amount measured between the petpide of step (a)(i) and the peptide of step (a) (ii) in the absence of the compound/thereby determining whether the compound is capable of inhibiting the interaction of the EN-RAGE peptide with the RAGE peptide, wherein a reduction in the amount of interaction in the presence of the compound indicates that the compound is capable of inhibiting the interaction. The present invention also provides for a method for inhibiting inflammation in a subject which comprises administering to the subject a compound capable of interfering with the interaction between EN-RAGE peptide and receptor for advanced glycation endproduct (RAGE) in the subject thereby inhibiting inflammation in the subject.

☐ 84. Document ID: US 20020099010 A1

L16: Entry 84 of 131 File: PGPB Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099010
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020099010 A1

TITLE: Neurogenic compositions and methods

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Lukanidin, Eugene | Copenhagen | | DK | |
| Bock, Elisabeth Marianne | Charlottenlund | | DK | |
| Berezin, Vladimir | Copenhagen N. | | DK | |

US-CL-CURRENT: 514/12; 435/183, 435/320.1, 435/368, 435/69.1

ABSTRACT:

The present invention has found that the Mts1 protein is expressed in white matter astrocytes in the spinal cord. Such expression is significantly increased following sciatic nerve injury or dorsal root injury, particularly in astrocytes surrounding dorsal funiculus containing the central processes of the injured primary sensory neurons. The present invention has further demonstrated that Mts1 proteins administered extracellularly promote neurite outgrowth from neuronal cells. Based on these surprising findings, the present invention provides compositions and methods that are useful for the treatment of various neurological conditions characterized by death, degeneration or injury of neuronal cells.



☐ 85. Document ID: US 20020086821 A1

L16: Entry 85 of 131 File: PGPB Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086821
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020086821 A1

TITLE: Nucleic acids, proteins, and antibodies

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Rosen, Craig A. | Laytonsville | MD | US | |
| Ruben, Steven M. | Olney | MD | US | |
| Barash, Steven C. | Rockville | MD | US | |

US-CL-CURRENT: 514/12; 435/183, 435/320.1, 435/325, 435/69.1, 536/23.1

ABSTRACT:

The present invention relates to novel respiratory system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "respiratory system antigens," and the use of such respiratory system antigens for detecting disorders of the respiratory system, particularly the presence of cancer of respiratory system tissues and cancer metastases. More specifically, isolated respiratory system associated nucleic acid molecules are provided encoding novel respiratory system associated polypeptides. Novel respiratory system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human respiratory system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the respiratory system, including cancer of respiratory system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.



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☐ 86. Document ID: US 20020048763 A1

L16: Entry 86 of 131 File: PGPB Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020048763
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020048763 A1

TITLE: Human genome-derived single exon nucleic acid probes useful for gene expression analysis

PUBLICATION-DATE: April 25, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Penn, Sharron Gaynor | San Mateo | CA | US | |
| Rank, David Russell | Fremont | CA | US | |
| Chen, Wensheng | Mountain View | CA | US | |
| Hanzel, David Kagen | Palo Alto | CA | US | |

US-CL-CURRENT: 435/6; 536/24.3

ABSTRACT:

Methods and apparatus for predicting, confirming and displaying functional regions from genomic sequence data are used to identify 16,834 unique human genome-derived single exon probes useful for gene expression analysis, particularly gene expression analysis by microarray. Also presented are genome-derived single exon microarrays that include such probes, peptides encoded by the exons, and antibodies thereto.



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☐ 87. Document ID: US 20020006957 A1

L16: Entry 87 of 131 File: PGPB Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006957
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020006957 A1

TITLE: Method for the synthesis of compounds of formula I and their uses thereof

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Mjalli, Adnan M.M. | Jamestown | NC | US | |
| Gopalaswamy, Ramesh | Greensboro | NC | US | |
| Avor, Kwasi S. | High Point | NC | US | |
| Wysong, Christopher L. | Winston-Salem | NC | US | |
| Patron, Andrew | San Diego | CA | US | |

US-CL-CURRENT: 514/510; 514/514, 568/24, 568/48

ABSTRACT:

This invention provides certain compounds, methods of their preparation, pharmaceutical compositions comprising the compounds, their use in treating human or animal disorders. The compounds of the invention are useful as modulators of the interaction between the receptor for advanced glycated end products (RAGE) and its ligands, such as advanced glycated end products (AGEs), S100/calgranulin/EN-RAGE, .beta.-amyloid and amphoterin, and for the management, treatment, control, or as an adjunct treatment for diseases in humans caused by RAGE. Such diseases or disease states include acute and chronic inflammation, the development of diabetic late complications such as increased vascular permeability, nephropathy, atherosclerosis, and retinopathy, the development of Alzheimer's disease, erectile dysfunction, and tumor invasion and metastasis.



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☐ 88. Document ID: US 20010041349 A1

L16: Entry 88 of 131 File: PGPB Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041349
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010041349 A1

TITLE: Protein expression system arrays and use in biological screening

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Patron, Andrew | San Diego | CA | US | |
| Sawafta, Reyad | Greensboro | NC | US | |

Zhou, Bin Edmond OK US

US-CL-CURRENT: 435/7.92; 435/6, 702/19

ABSTRACT:

The present invention relates to the generation of an array of protein expression systems for parallel in vitro screening of small molecule libraries, protein or peptide libraries, or other protein-binding components. In an aspect, the invention provides a spatially defined array of protein expression systems comprising: (a) a substrate; (b) a binding surface which covers some or all of the substrate surface; and (c) a plurality of discrete protein expression systems arranged in discrete positions on portions of said substrate covered by said binding surface. Also described are method of using the array for the rapid identification of compounds of able to interact with proteins expressed by any given array.



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☐ 89. Document ID: US 20010011126 A1

L16: Entry 89 of 131 File: PGPB Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011126
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010011126 A1

TITLE: NEUROGENIC COMPOSITIONS AND METHODS

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| BOCK, ELISABETH MARIANNE | CHARLOTTENLUND | | DK | |
| BEREZIN, VLADIMIR | COPENHAGEN | | DK | |
| LUKANIDIN, EUGENE | COPENHAGEN | | DK | |

US-CL-CURRENT: 530/324; 530/350

ABSTRACT:

The present invention has found that the Mts1 protein is expressed in white matter astrocytes in the spinal cord. Such expression is significantly increased following sciatic nerve injury or dorsal root injury, particularly in astrocytes surrounding dorsal funiculus containing the central processes of the injured primary sensory neurons. The present invention has further demonstrated that Mts1 proteins administered extracellularly promote neurite outgrowth from neuronal cells. Based on these surprising findings, the present invention provides compositions and methods that are useful for the treatment of various neurological conditions characterized by death, degeneration or injury of neuronal cells.



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☐ 90. Document ID: US 20010007657 A1

L16: Entry 90 of 131 File: PGPB Jul 12, 2001

PGPUB-DOCUMENT-NUMBER: 20010007657
PGPUB-FILING-TYPE: new-utility
DOCUMENT-IDENTIFIER: US 20010007657 A1

TITLE: Compositions and methods for manipulating glial progenitor cells and treating neurological deficits

PUBLICATION-DATE: July 12, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Reid, James Steven | Berkeley | CA | US | |
| Fallon, James H. | Irvine | CA | US | |

US-CL-CURRENT: 424/93.7

ABSTRACT:

The invention provides compositions and methods for attracting glial and neuronal progenitor cells and their progeny to desired sites within the central nervous system tissue. These compositions and methods can also be used to induce directed differentiation of these cells. By providing various ways to generate new glial and neuronal cells from endogenous progenitor cells, the invention also provides methods for inducing regeneration of tissues and neurological function, and, indeed, generating new phenotypes and capabilities. Thus, the invention features methods and compositions for ameliorating neurological deficits, including inherited disorders, trauma, infections and the like.



☐ 91. Document ID: US 6780606 B1

L16: Entry 91 of 131 File: USPT Aug 24, 2004

US-PAT-NO: 6780606
DOCUMENT-IDENTIFIER: US 6780606 B1

TITLE: Method for diagnosing and distinguishing stroke and diagnostic devices for use therein

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |

US-CL-CURRENT: 435/7.92; 422/50, 422/60, 422/61, 424/184.1, 424/9.1, 435/7.2, 435/7.21, 436/501, 436/514, 436/518, 436/524

ABSTRACT:

A method for determining whether a subject has had a stroke and, if so, the type of stroke which includes analyzing the subject's body fluid for at least four selected

markers of stroke, namely, myelin basic protein, S100 protein, neuronal specific enolase and a brain endothelial membrane protein such as thrombomodulin or a similar molecule. The data obtained from the analyses provide information as to the type of stroke, the onset of occurrence and the extent of brain damage and allow a physician to determine quickly the type of treatment required by the subject.

30 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10



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☐ 92. Document ID: US 6759518 B1

L16: Entry 92 of 131 File: USPT Jul 6, 2004

US-PAT-NO: 6759518
DOCUMENT-IDENTIFIER: US 6759518 B1

TITLE: Single-chain multiple antigen-binding molecule, its preparation and use

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Kontermann; Roland | Ebsdorfergrund | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |
| Mueller; Rolf | Marburg | | | DE |

US-CL-CURRENT: 530/387.3; 435/320.1, 530/387.7, 536/23.1

ABSTRACT:

The present invention relates to a single-chain, multiple antigen-binding molecule with diverse variable domains of a heavy and of a light chain of an immunoglobulin, which are connected in the form of a VH-VL construct, which are in turn connected together via a peptide, and to the preparation and use thereof as pharmaceutical or diagnostic aid.

19 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5



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☐ 93. Document ID: US 6756476 B2

L16: Entry 93 of 131 File: USPT Jun 29, 2004

US-PAT-NO: 6756476
DOCUMENT-IDENTIFIER: US 6756476 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2021 daltons

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 530/300; 435/7.1, 435/7.2, 436/173, 436/174, 436/501, 436/63, 436/86, 436/89, 530/387.9, 530/388.25, 530/391.3, 530/412

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



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☐ 94. Document ID: US 6703366 B2

L16: Entry 94 of 131 File: USPT Mar 9, 2004

US-PAT-NO: 6703366
DOCUMENT-IDENTIFIER: US 6703366 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1,896 daltons

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby, Ontario | | L0G 1J0 | CA |
| Thatcher; Brad | Toronto, Ontario | | M8Y 3Y4 | CA |
| Marshall; John | Toronto, Ontario | | M6R 2V3 | CA |
| Yantha; Jason | Toronto, Ontario | | M4Y 2W4 | CA |
| Vrees; Tammy | Oakville, Ontario | | L6L 3C5 | CA |

US-CL-CURRENT: 514/13; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



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☐ 95. Document ID: US 6693080 B2

L16: Entry 95 of 131 File: USPT Feb 17, 2004

US-PAT-NO: 6693080
DOCUMENT-IDENTIFIER: US 6693080 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1521 daltons

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/14; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 96. Document ID: US 6677303 B2

L16: Entry 96 of 131 File: USPT Jan 13, 2004

US-PAT-NO: 6677303
DOCUMENT-IDENTIFIER: US 6677303 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1097 daltons

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/2; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



☐ 97. Document ID: US 6670147 B1

L16: Entry 97 of 131 File: USPT Dec 30, 2003

US-PAT-NO: 6670147
DOCUMENT-IDENTIFIER: US 6670147 B1

TITLE: Nucleic acid construct for expressing active substances which can be activated by proteases, and preparation and use

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Heidtmann; Hans Heinrich | Marburg | | | DE |
| Mueller; Rolf | Marburg | | | DE |

Sedlacek; Hans-Harald Marburg DE

US-CL-CURRENT: 435/69.1; 435/252.3, 435/325, 435/70.1, 530/350, 536/23.1

ABSTRACT:

The invention relates to a nucleic acid construct for expressing an active substance which is activated by an enzyme which is released from mammalian cells, which construct comprises the following components: a) at least one promoter element, b) at least one DNA sequence which encodes an active compound (protein B), c) a least one DNA sequence which encodes an amino acid sequence (part structure C) which can be cleaved specifically by an enzyme which is released from a mammalian cell, and d) at least one DNA sequence which encodes a peptide or protein (part structure D) which is bound to the active compound (protein B) by way of the cleavable amino acid sequence (part structure C) and inhibits the activity of the active compound (protein B), and also to the use of the nucleic acid construct for preparing a drug for treating diseases.

7 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3



☐ 98. Document ID: US 6670136 B2

L16: Entry 98 of 131 File: USPT Dec 30, 2003

US-PAT-NO: 6670136
DOCUMENT-IDENTIFIER: US 6670136 B2

TITLE: Extracellular novel RAGE binding protein (EN-RAGE) and uses thereof

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Schmidt; Ann Marie | Franklin Lakes | NJ | | |
| Stern; David | Great Neck | NY | | |

US-CL-CURRENT: 435/7.1; 530/324, 530/350, 530/388.1, 530/389.1

ABSTRACT:

The present invention provides for an isolated human EN-RAGE peptide. The present invention also provides for a method for determining whether a compound is capable of inhibiting the interaction of an EN-RAGE peptide with a RAGE peptide, which comprises: (a) admixing: (i) a RAGE peptide or an sRAGE peptide or a fragment of either thereof, (ii) an EN-RAGE peptide or a fragment thereof, and (iii) the compound; (b) measuring the level of interaction between the peptide of step (a) (i) and the peptide of step (a) (ii), and (c) comparing the amount of interaction meausred in step (b) with the amount measured between the petpide of step (a)(i) and the peptide of step (a) (ii) in the absence of the compound, thereby determining whether the compound is capable of inhibiting the interaction of the EN-RAGE peptide with the RAGE peptide, wherein a reduction in the amount of interaction in the presence of the compound indicates that the compound is capable of inhibiting the interaction. The present invention also provides for a method for inhibiting

inflammation in a subject which comprises administering to the subject a compound capable of interfering with the interaction between EN-RAGE peptide and receptor for advanced glycation endproduct (RAGE) in the subject thereby inhibiting inflammation in the subject.

2 Claims, 27 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Des

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☐ 99. Document ID: US 6638504 B1

L16: Entry 99 of 131 File: USPT Oct 28, 2003

US-PAT-NO: 6638504
DOCUMENT-IDENTIFIER: US 6638504 B1
**** See image for Certificate of Correction ****

TITLE: Methods for treating cancer

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Lukanidin; Eugene | Copenhagen | | | DK |

US-CL-CURRENT: 424/130.1; 435/4, 435/7.1

ABSTRACT:

The present invention is directed towards the diagnosis of malignant cancer by detection of the mts-1 MRNA or the mts-1 protein, encoded by the mts-1 gene. The present invention contemplates the use of recombinant mts-1 DNA and antibodies directed against the mts-1 protein to diagnose the metastatic potential of several types of tumor cells, including, for example, thyroid, epithelial, lung, liver and kidney tumor cells. The present invention is also directed to mammalian cell lines and tumors with high and low metastatic potential which have been developed to serve as tseful model systems for in vitro and in vivo anti-metastasis drug screening.

5 Claims, 46 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Des

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☐ 100. Document ID: US 6627608 B2

L16: Entry 100 of 131 File: USPT Sep 30, 2003

US-PAT-NO: 6627608
DOCUMENT-IDENTIFIER: US 6627608 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of

1206 daltons

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/14; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 2

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☐ 101. Document ID: US 6627607 B2

**Using default format because multiple data bases are involved.**

L16: Entry 101 of 131 File: USPT Sep 30, 2003

US-PAT-NO: 6627607
DOCUMENT-IDENTIFIER: US 6627607 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1845 daltons

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/13; 436/173, 436/174, 436/501, 530/326

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw-Des

☐ 102. Document ID: US 6627606 B2

L16: Entry 102 of 131 File: USPT Sep 30, 2003

US-PAT-NO: 6627606
DOCUMENT-IDENTIFIER: US 6627606 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1465 daltons

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/13; 436/173, 436/174, 436/501, 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

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☐ 103. Document ID: US 6627457 B2

L16: Entry 103 of 131 File: USPT Sep 30, 2003

US-PAT-NO: 6627457
DOCUMENT-IDENTIFIER: US 6627457 B2
**** See image for Certificate of Correction ****

TITLE: Methods for detecting pregnancy

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Pandian; Murugan R. | Mission Viejo | CA | | |
| Lu; Julie Y. | Mission Viejo | CA | | |

US-CL-CURRENT: 436/501; 435/7.1, 435/7.8, 436/510, 436/536, 436/542, 436/65, 436/804, 436/818, 436/824, 530/387.5, 530/388.24, 530/389.2

ABSTRACT:

Methods for detecting pregnancy in a woman comprise screening a biological sample of the woman for pregnancy markers. The methods of the invention include chemiluminescent assays for the pregnancy markers. The methods of the invention also comprise utilizing at least two capture antibodies that specifically bind different epitopes of the pregnancy marker in one assay. The methods of the invention permit detection of pregnancy within about 7 days after ovulation or implantation.

37 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

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☐ 104. Document ID: US 6620787 B2

L16: Entry 104 of 131 File: USPT Sep 16, 2003

US-PAT-NO: 6620787
DOCUMENT-IDENTIFIER: US 6620787 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 2267 daltons

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettelby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/12; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



☐ 105. Document ID: US 6620786 B2

L16: Entry 105 of 131 File: USPT Sep 16, 2003

US-PAT-NO: 6620786
DOCUMENT-IDENTIFIER: US 6620786 B2

TITLE: Biopolymer marker indicative of disease state having molecular weight of 2937 daltons

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |

| | | |
|---|---|---|
| Marshall; John | Toronto | CA |
| Yantha; Jason | Toronto | CA |
| Vrees; Tammy | Oakville | CA |

US-CL-CURRENT: 514/12; 436/173, 436/174, 436/501, 530/324

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 2



☐ 106. Document ID: US 6617308 B2

L16: Entry 106 of 131 File: USPT Sep 9, 2003

US-PAT-NO: 6617308
DOCUMENT-IDENTIFIER: US 6617308 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1865 daltons

DATE-ISSUED: September 9, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/13; 436/173, 436/174, 436/501, 530/326

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

☐ 107. Document ID: US 6613801 B2

L16: Entry 107 of 131 File: USPT Sep 2, 2003

US-PAT-NO: 6613801
DOCUMENT-IDENTIFIER: US 6613801 B2

TITLE: Method for the synthesis of compounds of formula I and their uses thereof

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mjalli; Adnan M. M. | Jamestown | NC | | |
| Gopalaswamy; Ramesh | Greensboro | NC | | |
| Avor; Kwasi S. | High Point | NC | | |
| Wysong; Christopher L. | Winston-Salem | NC | | |
| Patron; Andrew | San Diego | CA | | |

US-CL-CURRENT: 514/514; 514/516, 564/155

ABSTRACT:

This invention provides certain compounds, methods of their preparation, pharmaceutical compositions comprising the compounds, their use in treating human or animal disorders. The compounds of the invention are useful as modulators of the interaction between the receptor for advanced glycated end products (RAGE) and its ligands, such as advanced glycated end products (AGEs), S100/calgranulin/EN-RAGE, .beta.-amyloid and amphoterin, and for the management, treatment, control, or as an adjunct treatment for diseases in humans caused by RAGE. Such diseases or disease states include acute and chronic inflammation, the development of diabetic late complications such as increased vascular permeability, nephropathy, atherosclerosis, and retinopathy, the development of Alzheimer's disease, erectile dysfunction, and tumor invasion and metastasis.

27 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Des

☐ 108. Document ID: US 6602855 B2

L16: Entry 108 of 131 File: USPT Aug 5, 2003

US-PAT-NO: 6602855
DOCUMENT-IDENTIFIER: US 6602855 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1449 daltons

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/14; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 3 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 3



☐ 109. Document ID: US 6599877 B2

L16: Entry 109 of 131 File: USPT Jul 29, 2003

US-PAT-NO: 6599877
DOCUMENT-IDENTIFIER: US 6599877 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1020 daltons

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/2; 436/173, 436/174, 436/501, 530/328

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

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☐ 110. Document ID: US 6593298 B2

L16: Entry 110 of 131 File: USPT Jul 15, 2003

US-PAT-NO: 6593298
DOCUMENT-IDENTIFIER: US 6593298 B2

TITLE: Biopolymer marker indicative of disease state having a molecular weight of 1690 daltons

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Thatcher; Brad | Toronto | | | CA |
| Marshall; John | Toronto | | | CA |
| Yantha; Jason | Toronto | | | CA |
| Vrees; Tammy | Oakville | | | CA |

US-CL-CURRENT: 514/14; 436/173, 436/174, 436/501, 530/327

ABSTRACT:

The instant invention involves the use of a combination of preparatory steps in conjunction with mass spectroscopy and time-of-flight detection procedures to maximize the diversity of biopolymers which are verifiable within a particular sample. The cohort of biopolymers verified within such a sample is then viewed with reference to their ability to evidence at least one particular disease state; thereby enabling a diagnostician to gain the ability to characterize either the presence or absence of said at least one disease state relative to recognition of the presence and/or the absence of said biopolymer.

9 Claims, 4 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc

☐ 111. Document ID: US 6555340 B1

L16: Entry 111 of 131 File: USPT Apr 29, 2003

US-PAT-NO: 6555340
DOCUMENT-IDENTIFIER: US 6555340 B1

TITLE: Nucleic acid encoding bovine extracellular rage binding protein (en-rage)

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Schmidt; Ann Marie | Franklin Lakes | NJ | | |
| Stern; David | Great Neck | NY | | |

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 536/23.5

ABSTRACT:

The present invention provides for an isolated human EN-RAGE peptide. The present invention also provides for a method for determining whether a compound is capable of inhibiting the interaction of an EN-RAGE peptide with a RAGE peptide. The present invention also provides for a method for inhibiting inflammation in a subject which comprises administering to the subject a compound capable of interfering with the interaction between EN-RAGE peptide and receptor for advanced glycation endproduct (RAGE) in the subject thereby inhibiting inflammation in the subject.

14 Claims, 36 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27



☐ 112. Document ID: US 6537794 B1

L16: Entry 112 of 131 File: USPT Mar 25, 2003

US-PAT-NO: 6537794
DOCUMENT-IDENTIFIER: US 6537794 B1

TITLE: Chemokine

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Lesslauer; Werner | Riehen | | | CH |
| Utans-Schneitz; Ulrike | Basel | | | CH |

US-CL-CURRENT: 435/252.3; 435/252.33, 435/254.11, 435/320.1, 435/325, 435/69.1

ABSTRACT:

The present invention relates to the discovery of novel genes and proteins, which function in pathways involved in brain pathogenesis. In particular, the novel genes and proteins relate to inflammatory tissue responses caused by brain injuries such trauma, ischemia or autoimmune-inflammation or other diseases or processes related to neuroinflammation. The compounds disclosed in the present invention are useful as therapeutics, diagnostics and in screening assays.

4 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des.

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☐ 113. Document ID: US 6482618 B2

L16: Entry 113 of 131 File: USPT Nov 19, 2002

US-PAT-NO: 6482618
DOCUMENT-IDENTIFIER: US 6482618 B2

TITLE: Self-enhancing, pharmacologically controllable expression systems

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mueller; Rolf | Marburg | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |

US-CL-CURRENT: 435/91.41; 435/320.1, 435/325, 536/23.4, 536/24.1

ABSTRACT:

The invention relates to a nucleic acid construct which constitutes a self-enhancing expression system and which comprises the following components: at least one first structural gene that encodes an active compound; at least one second structural gene that encodes a transcription factor protein; and at least one activation sequence comprised of at least one sequence that binds the transcription factor protein and at least one promoter sequence;

wherein each activation sequence activates the expression of a structural gene and the expression of the transcription factor protein; and to the use of the nucleic acid construct for preparing a drug for treating diseases.

17 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des.

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☐ 114. Document ID: US 6465246 B1

L16: Entry 114 of 131 File: USPT Oct 15, 2002

US-PAT-NO: 6465246
DOCUMENT-IDENTIFIER: US 6465246 B1

TITLE: Oncogene- or virus-controlled expression systems

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mueller; Rolf | Marburg | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |

US-CL-CURRENT: 435/320.1; 435/325, 435/375, 435/69.1, 435/69.7, 435/91.1, 435/91.4, 530/352, 530/358, 536/23.1, 536/23.4 , 536/23.5, 536/23.72

ABSTRACT:

Nucleic acid constructs for expressing an effector gene, with the nucleic acid construct comprising a promoter I (component a) which controls the expression of a transcription factor gene (component b), a transcription factor gene (component b), a promoter II (component c) to which the gene product of the transcription factor gene binds and which controls the expression of an effector gene (component d), and effector gene (component d), wherein the activity of the gene product of the transcription factor gene depends on one or more cellular regulatory proteins which bind to this gene product and affect its activity, and isolated cells containing the nucleic acid constructs, can be used for preparing a drug for treating diseases and in methods of treating diseases.

2 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1



☐ 115. Document ID: US 6461828 B1

L16: Entry 115 of 131 File: USPT Oct 8, 2002

US-PAT-NO: 6461828
DOCUMENT-IDENTIFIER: US 6461828 B1

TITLE: Conjunctive analysis of biological marker expression for diagnosing organ failure

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Stanton; Eric B. | Burlington | | | CA |
| Jackowski; George | Kettleby | | | CA |

US-CL-CURRENT: 435/7.92; 422/60, 422/61, 435/7.93, 435/7.94, 435/969, 435/970, 435/973, 435/975, 436/514, 436/518, 436/528, 436/530, 436/807, 436/808, 436/810

ABSTRACT:

A diagnostic tool is disclosed for accurately and rapidly diagnosing the condition of an ailing organ. Although applicable to numerous organ and organ systems, this application particularly illustrates the concept of conjunctive marker utilization as it relates to diagnosing and distinguishing congestive heart failure. The invention particularly relates to the conjunctive utilization of cardiac Troponin I (cTn-I) and natriuretic peptide, e.g. ANP, pro-ANP, BNP, pro-BNP and CNP as a retrospective tool for diagnosing the underlying mechanism of heart failure and as a prospective analytical device for monitoring disease progression and efficacy of therapeutic agents.

5 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 116. Document ID: US 6451547 B1

L16: Entry 116 of 131 File: USPT Sep 17, 2002

US-PAT-NO: 6451547
DOCUMENT-IDENTIFIER: US 6451547 B1

TITLE: Process for differential diagnosis of Alzheimer's dementia and device therefor

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |
| Takahashi; Miyoko | North York | | | CA |

US-CL-CURRENT: 435/7.4; 435/7.1, 435/7.9, 435/7.92, 435/7.93, 435/7.94, 435/7.95, 530/387.2, 530/388.1, 530/388.25, 530/388.26, 530/389.1, 530/389.3, 530/391.1

ABSTRACT:

A method for diagnosing Alzheimer's disease(AD) is disclosed. The method involves directly detecting the presence of a biochemical marker, specifically human glutamine synthetase, in bodily fluid, preferably blood or a blood product. The detection is by an immunoassay incorporating an antibody specific to human glutamine synthetase. In addition, a method for distinguishing between AD and non-AD dementia is disclosed.

13 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 117. Document ID: US 6383785 B1

L16: Entry 117 of 131 File: USPT May 7, 2002

US-PAT-NO: 6383785

DOCUMENT-IDENTIFIER: US 6383785 B1

TITLE: Self-enhancing, pharmacologically controllable expression systems

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Mueller; Rolf | Marburg | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |

US-CL-CURRENT: 435/91.41; 435/320.1, 435/325, 536/23.4, 536/24.1

ABSTRACT:

The invention relates to a nucleic acid construct which constitutes a self-enhancing expression system and which comprises the following components:

at least one first structural gene that encodes an active compound;

at least one second structural gene that encodes a transcription factor protein; and

at least one activation sequence comprised of at least one sequence that binds the transcription factor protein and at least one promoter sequence;

wherein each activation sequence activates the expression of a structural gene and the expression of the transcription factor protein; and to the use of the nucleic acid construct for preparing a drug for treating diseases.

12 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16



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☐ 118. Document ID: US 6380170 B1

L16: Entry 118 of 131 File: USPT Apr 30, 2002

US-PAT-NO: 6380170
DOCUMENT-IDENTIFIER: US 6380170 B1

TITLE: Nucleic acid construct for the cell cycle regulated expression of structural genes

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Muller; Rolf | Marburg | | | DE |
| Liu; Ningshu | Marburg | | | DE |
| Zwicker; Jork | Marburg | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |

US-CL-CURRENT: 514/44; 424/93.2, 435/320.1, 435/325, 435/455, 536/23.1, 536/24.1

ABSTRACT:

The invention refers to a nucleic acid construct comprising at least one activator sequence, at least one chimeric promoter module comprising a nucleotide sequence which binds a protein of the E2F family and a protein of the CDF-1 family, and at least one gene, wherein said chimeric promoter module promotes expression of the gene in the cell cycle later than the B-myb promoter but earlier than the cdc25C promoter. The invention also concerns the purification and identification of CDF-1 protein, and use of this protein to develop new control systems.

16 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2



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☐ 119. Document ID: US 6358732 B1

L16: Entry 119 of 131 File: USPT Mar 19, 2002

US-PAT-NO: 6358732
DOCUMENT-IDENTIFIER: US 6358732 B1

TITLE: DNA for expression under control of a cell cycle-dependent promoter

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Sedlacek; Hans-Harald | Marburg | | | DE |
| Muller; Rolf | Marburg | | | DE |

US-CL-CURRENT: 435/320.1; 424/93.2, 435/375, 435/455, 514/44, 536/23.1, 536/23.5, 536/24.1

ABSTRACT:

A DNA sequence is disclosed for the genetic therapy of diseases of the central nervous system. The essential components for the DNA sequence are the activator sequence, the promoter module, and the active substance coding gene. The activator sequence is specifically activated in activated endothelial or glial cells. Activation is cell cycle-regulated by the promoter module. The active substance represents an inhibitor of the nerve growth factor, a dopanine metabolism enzyme, and/or a nerve cell protection factor. The disclosed DNA sequence is inserted into a viral or non-viral vector, supplemented with a ligand with affinity for the target cells.

16 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6



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☐ 120. Document ID: US 6265562 B1

L16: Entry 120 of 131 File: USPT Jul 24, 2001

US-PAT-NO: 6265562
DOCUMENT-IDENTIFIER: US 6265562 B1

TITLE: Nucleic acid constructs whose activity is affected by inhibitors of cyclin-dependent kinases and uses thereof

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Eilers; Martin | Marburg | | | DE |
| Buergin; Andrea | Marburg | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |

US-CL-CURRENT: 536/23.4; 536/23.1, 536/23.5

ABSTRACT:

The present application discloses nucleic acid constructs comprising nucleic acids which encode a protein which inhibits the cellular protein p27 and thereby relieves the inhibition of the proliferation of the cell which is brought about by p27, fragments and variants thereof, some of which possess a dominant interfering character.

28 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 25



☐ 121. Document ID: US 6235489 B1

L16: Entry 121 of 131 File: USPT May 22, 2001

US-PAT-NO: 6235489
DOCUMENT-IDENTIFIER: US 6235489 B1

TITLE: Method for diagnosing and distinguishing stroke and diagnostic devices for use therein

DATE-ISSUED: May 22, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jackowski; George | Kettleby | | | CA |

US-CL-CURRENT: 435/7.92; 422/55, 422/56, 422/58, 422/60, 422/61, 424/9.1, 435/13, 435/4, 435/5, 435/6, 435/7.1, 435/7.21 , 435/7.4, 435/7.9, 435/7.94, 435/7.95, 435/9, 435/969, 435/970, 435/973, 435/975, 436/161, 436/164, 436/514, 436/528, 436/530, 436/531, 436/807, 436/808, 436/810, 436/811

ABSTRACT:

A method for determining whether a subject has had a stroke and, if so, the type of stroke which includes analyzing the subject's body fluid for at least four selected markers of stroke, namely, myelin basic protein, S100 protein, neuronal specific enolase and a brain endothelial membrane protein such as thrombomodulin or a similar molecule. The data obtained from the analyses provide information as to the type of stroke, the onset of occurrence and the extent of brain damage and allow a physician to determine quickly the type of treatment required by the subject.

19 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10



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☐ 122. Document ID: US 6080575 A

L16: Entry 122 of 131 File: USPT Jun 27, 2000

US-PAT-NO: 6080575
DOCUMENT-IDENTIFIER: US 6080575 A

TITLE: Nucleic acid construct for expressing active substances which can be activated by proteases, and preparation and use

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Heidtmann; Hans Heinrich | Marburg | | | DE |
| Mueller; Rolf | Marburg | | | DE |
| Sedlacek; Hans-Harald | Marburg | | | DE |

US-CL-CURRENT: 435/320.1; 435/456, 435/464, 536/23.1

ABSTRACT:

The invention relates to a nucleic acid construct for expressing an active substance which is activated by an enzyme which is released from mammalian cells, which construct comprises the following components: a) at least one promoter element, b) at least one DNA sequence which encodes an active compound (protein B) c) a least one DNA sequence which encodes an amino acid sequence (part structure C) which can be cleaved specifically by an enzyme which is released from a mammalian cell, and d) at least one DNA sequence which encodes a peptide or protein (part structure D) which is bound to the active compound (protein B) by way of the cleavable amino acid sequence (part structure C) and inhibits the activity of the active compound (protein B), and also to the use of the nucleic acid construct for preparing a drug for treating diseases.

22 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3



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☐ 123. Document ID: US 6057426 A

L16: Entry 123 of 131 File: USPT May 2, 2000

US-PAT-NO: 6057426
DOCUMENT-IDENTIFIER: US 6057426 A

TITLE: Chemokine

DATE-ISSUED: May 2, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Lesslauer; Werner | Riehen | | | CH |
| Utans-Schneitz; Ulrike | Basel | | | CH |

US-CL-CURRENT: 530/351; 424/85.1, 430/140, 530/402, 530/408, 530/409, 530/410, 530/810, 530/812

ABSTRACT:

The present invention relates to the discovery of novel genes and proteins, which function in pathways involved in brain pathogenesis. In particular, the novel genes and proteins relate to inflammatory tissue responses caused by brain injuries such trauma, ischemia or autoimmune-inflammation or other diseases or processes related to neuroinflammation. The compounds disclosed in the present invention are useful as therapeutics, diagnostics and in screening assays.

7 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Des

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☐ 124. Document ID: US 5990080 A

L16: Entry 124 of 131 File: USPT Nov 23, 1999

US-PAT-NO: 5990080
DOCUMENT-IDENTIFIER: US 5990080 A

TITLE: Use of protein S-100-b in medicines containing the protein S-100b

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Haglid; Kenneth G. | Hov.ang.s | | | SE |

US-CL-CURRENT: 514/2; 424/400, 514/12, 530/300, 530/324

ABSTRACT:

The present invention concerns the use of the protein S-100b in medicines for the stimulation of growth and survival of damaged neurons. The invention includes as well

a medicine containing the S-100b protein in an aqueous solution which may contain also other biocompatible substances.

8 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Des

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☐ 125. Document ID: US 5989827 A

L16: Entry 125 of 131 File: USPT Nov 23, 1999

US-PAT-NO: 5989827
DOCUMENT-IDENTIFIER: US 5989827 A

TITLE: Use of nuclear magnetic resonance to design ligands to target biomolecules

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Fesik; Stephen W. | Gurnee | IL | | |
| Hajduk; Philip J. | Palatine | IL | | |
| Olejniczak; Edward T. | Grayslake | IL | | |

US-CL-CURRENT: 435/7.1; 436/173, 436/501

ABSTRACT:

The present invention provides a process of designing compounds which bind to a specific target molecule. The process includes the steps of a) identifying a first ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; b) identifying a second ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; c) forming a ternary complex by binding the first and second ligands to the target molecule; d) determining the three dimensional structure of the ternary complex and thus the spatial orientation of the first and second ligands on the target molecule; and e) linking the first and second ligands to form the drug, wherein the spatial orientation of step (d) is maintained.

8 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Des

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☐ 126. Document ID: US 5891643 A

L16: Entry 126 of 131 File: USPT Apr 6, 1999

US-PAT-NO: 5891643
DOCUMENT-IDENTIFIER: US 5891643 A
**** See image for Certificate of Correction ****

TITLE: Use of nuclear magnetic resonance to design ligands to target biomolecules

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Fesik; Stephen W. | Gurnee | IL | | |
| Hajduk; Philip J. | Palatine | IL | | |
| Olejniczak; Edward T. | Grayslake | IL | | |

US-CL-CURRENT: 435/7.1; 436/173, 436/501

ABSTRACT:

The present invention provides a process of designing compounds which bind to a specific target molecule. The process includes the steps of a) identifying a first ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; b) identifying a second ligand to the target molecule using two-dimensional .sup.15 N/.sup.1 H NMR correlation spectroscopy; c) forming a ternary complex by binding the first and second ligands to the target molecule; d) determining the three dimensional structure of the ternary complex and thus the spatial orientation of the first and second ligands on the target molecule; and e) linking the first and second ligands to form the drug, wherein the spatial orientation of step (d) is maintained.

8 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10



☐ 127. Document ID: US 5801184 A

L16: Entry 127 of 131 File: USPT Sep 1, 1998

US-PAT-NO: 5801184
DOCUMENT-IDENTIFIER: US 5801184 A

TITLE: Carbon monoxide dependent guanylyl cyclase modifiers and methods of use

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Glasky; Alvin J. | Tustin | CA | 92680 | |
| Rathbone; Michel P. | Hamilton, Ontario | | | CA |

US-CL-CURRENT: 514/310; 514/263.38, 544/265, 544/276

ABSTRACT:

Disclosed herein are methods directed generally to the control of neural activity and for selectively and controllably inducing the in vivo genetic expression of one or more naturally occurring genetically encoded molecules in mammals. More particularly, the present invention selectively activates or derepresses genes encoding for

specific naturally occurring molecules such as neurotrophic factors through the administration of carbon monoxide dependent guanylyl cyclase modulating purine derivatives. The methods of the present invention may be used to affect a variety of cellular and neurological activities and to therapeutically or prophylactically treat a wide variety of neurodegenerative, neurological, and cellular disorders.

16 Claims, 39 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 21



☐ 128. Document ID: US 5627047 A

L16: Entry 128 of 131 File: USPT May 6, 1997

US-PAT-NO: 5627047
DOCUMENT-IDENTIFIER: US 5627047 A

TITLE: Astrocyte-specific transcription of human genes

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Brenner; Michael | Gaithersburg | MD | | |
| Besnard; Francois | Rockville | MD | | |
| Nakatani; Yoshihiro | Bethesda | MD | | |

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/354, 435/368, 435/69.7, 536/23.4, 536/23.5, 536/24.1

ABSTRACT:

Three unique control DNA sequences of the glial fibrillary acidic (gfa) protein gene have been identified upstream of its basal promoter that are capable of regulating astrocyte-specific transcription of the human gene for glial fibrillary acidic protein (GFAP). One or more of those three regions alone or together with the SV40 early promoter and SV40 enhancer control expression of endogenous or heterologous protein in astrocytes. Transgenic animals expressing amyloid protein can be prepared and used as a model for evaluating Alzheimer's disease. Many heterologous proteins can be expressed in the astrocytes so as to take advantage of the growing list of astrocyte functions. Such proteins include hormones, growth factors, and their receptors. Examples include basic fibroblast growth factor (bFGF), acidic FGF (aFGF), platelet derived growth factor (PDGF), insulin like growth factors 1 and 2 (IGF-1, IGF-2), epidermal growth factor (EGF), transforming growth factors .beta.-1 and .beta.-2 (TGF.beta.1, TGF.beta.2), and S100.beta.; other examples totalled proteins encoded by oncogenes like myc, fos, and erb-a, ion channels, like the calcium channel and the potassium channel, and metabolic enzymes, especially ones involved in processing drugs or neurotransmitters; e.g., glutamine synthetase. Additionally, in each case, a dominant dysfunctional protein, an antisense RNA, or a ribozyme, all of which can inhibit the function or production of the protein, can be expressed in astrocytes.

37 Claims, 7 Drawing figures
Exemplary Claim Number: 1,28
Number of Drawing Sheets: 5

☐ 129. Document ID: US 5447939 A

L16: Entry 129 of 131 File: USPT Sep 5, 1995

US-PAT-NO: 5447939
DOCUMENT-IDENTIFIER: US 5447939 A

TITLE: Carbon monoxide dependent guanylyl cyclase modifiers and methods of use

DATE-ISSUED: September 5, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Glasky; Alvin J. | Tustin | CA | 92680 | |
| Rathbone; Michael P. | Hamilton, Ontario | | | CA |

US-CL-CURRENT: 514/310; 514/263.37, 514/263.38, 544/265, 544/276

ABSTRACT:

Disclosed herein are methods directed generally to the control of neural activity and to the treatment of neural disorders. More particularly, the present invention is directed to methods for the modification of mammalian neural activity through the administration of carbon monoxide dependent guanylyl cyclase modulating purine derivatives. The methods of the present invention may be used to affect a variety of neurological activities and to therapeutically or prophylactically treat a wide variety of neurodegenerative and neurological disorders.

39 Claims, 39 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc

☐ 130. Document ID: US 5274550 A

L16: Entry 130 of 131 File: USPT Dec 28, 1993

US-PAT-NO: 5274550
DOCUMENT-IDENTIFIER: US 5274550 A

TITLE: Blood alcohol level determining device

DATE-ISSUED: December 28, 1993

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Greenlee; Robert J. | Wausau | WI | 54401 | |

US-CL-CURRENT: 73/23.3

ABSTRACT:

A blood alcohol level determining device for calculating the blood alcohol level of a person, the blood alcohol level determining device comprising: first memory structure for storing characteristic information regarding the person; second memory structure for storing characteristic information regarding an alcoholic beverage; human interface structure for receiving, from a human operator of the device, information regarding the characteristics of the person and the characteristics of an alcoholic beverage, the interface structure communicating with the first and second memory structure; clock structure for measuring time; and structure communicating with the clock structure, with the first memory structure, and with the second memory structure, for calculating a blood alcohol level for the person based on the characteristics of the alcoholic beverage, the characteristics of the person, and time measured by the clock structure.

14 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9



☐ 131. Document ID: WO 9801471 A1, AU 9735633 A, NO 9806218 A, NZ 333408 A, EP 931094 A1, HU 9902836 A2, AU 715797 B, BR 9710175 A, JP 2000515854 W

L16: Entry 131 of 131 File: DWPI Jan 15, 1998

DERWENT-ACC-NO: 1998-100999
DERWENT-WEEK: 200423


TITLE: Peptide(s) from human brain protein S100beta fragments useful in S100 assay - by producing antibodies directed to the peptide(s), useful e.g. for diagnosis and monitoring of cerebral dysfunction and melanoma cancer

INVENTOR: BRUNDELL, J; NYBERG, L

PRIORITY-DATA: 1996SE-0002677 (July 5, 1996)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 9801471 A1 | January 15, 1998 | E | 029 | C07K014/435 |
| AU 9735633 A | February 2, 1998 | | 000 | C07K014/435 |
| NO 9806218 A | December 30, 1998 | | 000 | C07K014/435 |
| NZ 333408 A | May 28, 1999 | | 000 | C07K014/435 |
| EP 931094 A1 | July 28, 1999 | E | 000 | C07K014/435 |
| HU 9902836 A2 | December 28, 1999 | | 000 | C07K014/435 |
| AU 715797 B | February 10, 2000 | | 000 | C07K014/435 |
| BR 9710175 A | January 11, 2000 | | 000 | C07K014/435 |
| JP 2000515854 W | November 28, 2000 | | 031 | C07K014/47 |

INT-CL (IPC): C07 K 14/435; C07 K 14/47; C07 K 16/18; C12 P 21/08; G01 N 33/53; G01 N 33/543; G01 N 33/553; G01 N 33/577

ABSTRACTED-PUB-NO: EP 931094A
BASIC-ABSTRACT:

A new peptide consisting of at least 1 sub-fragment of the human brain protein S100B beta subunit (S100 beta ) comprises 6-38 amino acids and shows at least 90 % homology, whilst retaining identical immunological properties, with sequence (I) and/or sequence (II). SELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINN (I) TACHEFFEHE (II). Also claimed is a monoclonal antibody or fragment specifically binding to the peptide. Also claimed are peptides (III)-(V) derived from sequence (I), peptide (VI) derived from sequence (II) and specifically binding monoclonal antibodies/fragments: REGDKHKLKK (III) DKHKLKKSEL (IV) KLKKSELKEL (V) EFFEHE (VI)

USE - The peptides can be used to elicit antibodies (claimed), and the peptides and monoclonal antibodies/fragments used in immunological assay methods (claimed). The monoclonal antibodies/fragments are especially useful for assaying for human S100 beta ; a sample is immunologically reacted firstly with antibodies/fragments binding with peptide derived from sequence (I) and coupled to a carrier (e.g. a magnetic particle), and secondly with antibodies/fragments binding with peptide derived from sequence (II) and containing a detection means (e.g. emission of luminescence), then washed, and the amount of S100 beta detected (claimed). Kits for this method and for assaying human S100 beta polypeptide in a sample using claimed peptides or antibodies are provided (claimed). Determining the presence of brain protein S100B allows diagnosis and monitoring of patients with cerebral dysfunction and melanoma cancer.

ADVANTAGE - The antibodies provide a method with high sensitivity (e.g. detection limit 0.01 mu g) and the use of epitopes at a distance from each other means that different antibodies do not interfere with each other when binding to the analyte, often a problem with immunological assays. E.g. in an assay of S100 beta in serum from 577 melanoma patients at various stages of cancer progression, geometric means for Clinical Stage I and Clinical Stage II were 0.12 mu g/l and 0.33 mu g/l respectively ($p<0.001$), and of 136 patients with various stages of melanoma only 25 had S100 beta below 0.08 compared with 93/100 blood donors.
ABSTRACTED-PUB-NO:

WO 9801471A EQUIVALENT-ABSTRACTS:

A new peptide consisting of at least 1 sub-fragment of the human brain protein S100B beta subunit (S100 beta ) comprises 6-38 amino acids and shows at least 90 % homology, whilst retaining identical immunological properties, with sequence (I) and/or sequence (II). SELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINN (I) TACHEFFEHE (II). Also claimed is a monoclonal antibody or fragment specifically binding to the peptide. Also claimed are peptides (III)-(V) derived from sequence (I), peptide (VI) derived from sequence (II) and specifically binding monoclonal antibodies/fragments: REGDKHKLKK (III) DKHKLKKSEL (IV) KLKKSELKEL (V) EFFEHE (VI)

USE - The peptides can be used to elicit antibodies (claimed), and the peptides and monoclonal antibodies/fragments used in immunological assay methods (claimed). The monoclonal antibodies/fragments are especially useful for assaying for human S100 beta ; a sample is immunologically reacted firstly with antibodies/fragments binding with peptide derived from sequence (I) and coupled to a carrier (e.g. a magnetic particle), and secondly with antibodies/fragments binding with peptide derived from sequence (II) and containing a detection means (e.g. emission of luminescence), then washed, and the amount of S100 beta detected (claimed). Kits for this method and for assaying human S100 beta polypeptide in a sample using claimed peptides or antibodies are provided (claimed). Determining the presence of brain protein S100B allows diagnosis and monitoring of patients with cerebral dysfunction and melanoma cancer.

ADVANTAGE - The antibodies provide a method with high sensitivity (e.g. detection limit 0.01 mu g) and the use of epitopes at a distance from each other means that different antibodies do not interfere with each other when binding to the analyte, often a problem with immunological assays. E.g. in an assay of S100 beta in serum from 577 melanoma patients at various stages of cancer progression, geometric means for Clinical Stage I and Clinical Stage II were 0.12 mu g/l and 0.33 mu g/l respectively ($p<0.001$), and of 136 patients with various stages of melanoma only 25 had S100 beta below 0.08 compared with 93/100 blood donors.

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  51 FILES SEARCHED...
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  15 FILES SEARCHED...
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  48 FILES SEARCHED...
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  31 FILES SEARCHED...
  50 FILES SEARCHED...
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L5           79 L4 AND BLOOD BRAIN BARRIER

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L5   ANSWER 1 OF 79  BIOSIS  COPYRIGHT (c) 2004 The Thomson Corporation.  on STN
AN   2004:439308  BIOSIS
DN   PREV200400438352
TI   Peripheral markers of  ***blood***  -  ***brain***  ***barrier*** damage.
AU   Marchi, Nicola; Cavaglia, Marco; Fazio, Vincent; Bhudia, Sunil; Hallene, Kerri; Janigro, Damir [Reprint Author]
CS   Cerebrovasc Res CtrDept Neurol Surg, Cleveland Clin Fdn, 9500 Euclid Ave,NB20, Cleveland, OH, 44195, USA
     janigrd@ccf.org
SO   Clinica Chimica Acta, (April 2004) Vol. 342, No. 1-2, pp. 1-12. print.
     ISSN: 0009-8981 (ISSN print).
DT   Article
     General Review; (Literature Review)
LA   English
ED   Entered STN: 17 Nov 2004
     Last Updated on STN: 17 Nov 2004

L5   ANSWER 2 OF 79  BIOSIS  COPYRIGHT (c) 2004 The Thomson Corporation.  on STN
AN   2004:302423  BIOSIS
DN   PREV200400302879
TI   Intraventricular infusion of the neurotrophic protein  ***S100B*** improves cognitive recovery after fluid percussion injury in the rat.
AU   Kleindienst, Andrea [Reprint Author]; Harvey, Harlan B.; Rice, Ann C.; Mueller, Christian; Hamm, Robert J.; Gaab, Michael R.; Bullock, M. Ross
CS   Med Coll VirginiaDept Neurosurg, Virginia Commonwealth Univ, 1101 E Marshall St,Box 980508, Richmond, VA, 23298, USA
     akleindienst@vcu.edu
SO   Journal of Neurotrauma, (May 2004) Vol. 21, No. 5, pp. 541-547. print.
     ISSN: 0897-7151 (ISSN print).
DT   Article
LA   English
ED   Entered STN: 30 Jun 2004
     Last Updated on STN: 30 Jun 2004

L5 ANSWER 3 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2004:273640 BIOSIS
DN PREV200400273979
TI Relationship between stress and circulating levels of ***S100B*** protein.
AU Scaccianoce, Sergio [Reprint Author]; Del Bianco, Paola; Pannitteri, Gaetano; Passarelli, Francesca
CS Dept Human Physiol & Pharmacol Vittorio Erspamer, Univ Rome La Sapienza, Piazzale Aldo Moro 5, I-00185, Rome, Italy
sergio.scaccianoce@uniromal.it
SO Brain Research, (April 9 2004) Vol. 1004, No. 1-2, pp. 208-211. print.
ISSN: 0006-8993 (ISSN print).
DT Article
LA English
ED Entered STN: 2 Jun 2004
Last Updated on STN: 2 Jun 2004

L5 ANSWER 4 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2003:377358 BIOSIS
DN PREV200300377358
TI ***Serum*** ***S100B*** is increased during early treatment with antipsychotics and in deficit schizophrenia.
AU Schroeter, Matthias L. [Reprint Author]; Abdul-Khaliq, Hashim; Fruehauf, Stephan; Hoehne, Ruth; Schick, Gabi; Diefenbacher, Albert; Blasig, Ingolf E.
CS Max-Planck-Institute of Cognitive Neuroscience, Stephanstr. 1A, 04103, Leipzig, Germany
schroet@cns.mpg.de
SO Schizophrenia Research, (1 August 2003) Vol. 62, No. 3, pp. 231-236. print.
ISSN: 0920-9964.
DT Article
LA English
ED Entered STN: 13 Aug 2003
Last Updated on STN: 13 Aug 2003

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AN 2003:348858 BIOSIS
DN PREV200300348858
TI ***Serum*** ***S100beta*** : A noninvasive marker of ***blood*** - ***brain*** ***barrier*** function and brain lesions.
AU Kanner, Andrew A.; Marchi, Nicola; Fazio, Vincent; Mayberg, Marc R.; Koltz, Michael T.; Siomin, Vitaly; Stevens, Glen H. J.; Masaryk, Thomas; Ayumar, Barbara; Vogelbaum, Michael A.; Barnett, Gene H.; Janigro, Damir [Reprint Author]
CS Department of Neurosurgery, Cleveland Clinic Foundation, 9500 Euclid Avenue, c/o Martha Tobin, Editorial Services Manager, S-80, Cleveland, OH, 44195, USA
janigrd@ccf.org
SO Cancer, (June 1 2003) Vol. 97, No. 11, pp. 2806-2813. print.
ISSN: 0008-543X (ISSN print).
DT Article
LA English
ED Entered STN: 30 Jul 2003
Last Updated on STN: 30 Jul 2003

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AN 2003:325895 BIOSIS
DN PREV200300325895
TI ***SERUM*** ***S100B*** IS RELATED TO EARLY TREATMENT WITH TYPICAL ANTIPSYCHOTICS, DEFICIT SYNDROME AND THOUGHT DISTURBANCE IN SCHIZOPHRENIA.
AU Schroeter, M. L. [Reprint Author]; Abdul-Khaliq, H.; Diefenbacher, A.; Blasig, I. E.
CS Max Planck Inst of Cog Neurosci, Leipzig, Germany
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 706.8. http://sfn.scholarone.com. cd-rom. Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)

LA English
ED Entered STN: 16 Jul 2003
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AN 2003:324622 BIOSIS
DN PREV200300324622
TI MARKERS OF BBB DAMAGE AND INFLAMMATORY PROCESS.
AU Janigro, D. [Reprint Author]; Fazio, V. [Reprint Author]; Cucullo, L. [Reprint Author]; Marchi, N. [Reprint Author]
CS Neurosurgery, Cleveland Clinic, Cleveland, OH, USA
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 580.9. http://sfn.scholarone.com. cd-rom. Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 16 Jul 2003
Last Updated on STN: 16 Jul 2003

L5 ANSWER 8 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2003:108486 BIOSIS
DN PREV200300108486
TI ***S100B*** and NSE Levels from the Jugular Bulb during CEA: The Possibility of Distinct Roles in Monitoring.
AU Sahlein, Daniel H. [Reprint Author]; Heyer, Eric J. [Reprint Author]; Rampersad, Anita [Reprint Author]; Mocco, J. [Reprint Author]; Connolly, E. Sander [Reprint Author]
CS Anesthesiology, Columbia Presbyterian Medical Center, New York, NY, USA
SO Anesthesiology Abstracts of Scientific Papers Annual Meeting, (2002) No. 2002, pp. Abstract No. A-314. http://www.asa-abstracts.com. cd-rom. Meeting Info.: 2002 Annual Meeting of the American Society of Anesthesiologists. Orlando, FL, USA. October 12-16, 2002. American Society of Anesthesiologists Inc.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 26 Feb 2003
Last Updated on STN: 26 Feb 2003

L5 ANSWER 9 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2002:204644 BIOSIS
DN PREV200200204644
TI New antidepressant drugs that do not cross the ***blood*** - ***brain*** ***barrier*** .
AU Manev, H. [Reprint author]; Manev, R.
CS Psychiatric Institute, Department of Psychiatry, University of Illinois at Chicago, 1601 West Taylor Street, M/C912, Chicago, IL, 60612, USA hmanev@psych.uic.edu
SO Medical Hypotheses, (January, 2002) Vol. 58, No. 1, pp. 83-84. print. CODEN: MEHYDY. ISSN: 0306-9877.
DT Article
LA English
ED Entered STN: 20 Mar 2002
Last Updated on STN: 20 Mar 2002

L5 ANSWER 10 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2002:144439 BIOSIS
DN PREV200200144439
TI Leukocyte-mediated cerebral disorders during and after cardiac surgery.
AU Scholz, Martin [Reprint author]; Wimmer-Greinecker, Gerhard; Matheis, Georg
CS Department of Thoracic and Cardiovascular Surgery, J. W. Goethe University, Theodor-Stern-Kai 7, D-60590, Frankfurt, Germany m.scholz@em.uni-frankfurt.de
SO Matheis, Georg [Editor]; Moritz, Anton [Editor]; Scholz, Martin [Editor]. (2002) pp. 13-15. Leukocyte depletion in cardiac surgery and cardiology. print.
Publisher: S. Karger Publishers Inc., 26 West Avon Road, Farmington, CT, 06085, USA; S. Karger AG, CH-4009, Basel, Switzerland.

ISBN: 3-8055-7281-6 (cloth).
DT Book
Book; (Book Chapter)
LA English
ED Entered STN: 14 Feb 2002
Last Updated on STN: 26 Feb 2002

L5 ANSWER 11 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2001:509040 BIOSIS
DN PREV200100509040
TI S-100b is a ***serum*** marker of ***blood*** -brain disruption.
AU Kapural, M. [Reprint author]; Barnett, G. [Reprint author]; Krizanac-Bengez, L. [Reprint author]; Apollo, D. [Reprint author]; Perl, J. [Reprint author]; Mayberg, M. R. [Reprint author]; Masarik, T. [Reprint author]; Janigro, D. [Reprint author]
CS Cerebrovascular Research, Cleveland Clinic, Cleveland, OH, USA
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 578. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 31 Oct 2001
Last Updated on STN: 23 Feb 2002

L5 ANSWER 12 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2001:481306 BIOSIS
DN PREV200100481306
TI A role of autoimmune mechanisms in ischemic brain damage.
AU Skvortsova, V. I.; Sherstnev, V. V.; Gruden, M. A.; Myasoedov, N. F.; Stakhovskaya, L. V.; Efremova, N. M.; Hadzhieva, M. Kh.; Grivennikov, I. A.; Klyushnik, T. P.; Chaschikhina, E. V.; Kuzhilina, V. B.
SO Zhurnal Nevrologii i Psikhiatrii Imeni S. S. Korsakova, (2001) No. Supplement 1, pp. 46-54. print.
DT Article
LA Russian
ED Entered STN: 17 Oct 2001
Last Updated on STN: 23 Feb 2002

L5 ANSWER 13 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2001:77273 BIOSIS
DN PREV200100077273
TI Characteristics of sustained ***blood*** - ***brain*** ***barrier*** opening and tissue injury in a model for focal trauma in the rat.
AU Preston, Edward [Reprint author]; Webster, Jacqueline; Small, Daniel
CS Institute for Biological Sciences, National Research Council of Canada, M54 Montreal Rd, Ottawa, Ontario, K1A OR6, Canada
ed.preston@nrc.ca
SO Journal of Neurotrauma, (January, 2001) Vol. 18, No. 1, pp. 83-92. print.
ISSN: 0897-7151.
DT Article
LA English
ED Entered STN: 7 Feb 2001
Last Updated on STN: 12 Feb 2002

L5 ANSWER 14 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2001:76102 BIOSIS
DN PREV200100076102
TI ***Serum*** concentrations of S100 beta protein are correlated with severity of depression as rated by Hamilton depression scale.
AU Schroeter, M. L. [Reprint author]; Abdul-Khaliq, H.; Fuhrhans, C. J.; Blasig, I. E.; Diefenbacher, A.
CS Forschungsinstitut Molekul Pharmakol, Berlin, Germany
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-127.7. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LA English
ED Entered STN: 7 Feb 2001
Last Updated on STN: 12 Feb 2002

L5 ANSWER 15 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2000:210323 BIOSIS
DN PREV200000210323
TI ***Serum*** concentrations of ***S100beta*** protein are increased in patients with affective psychiatric disorders.
AU Schroeter, M. L. [Reprint author]; Fruhauf, S. [Reprint author]; Hoehne, R. [Reprint author]; Fuhrhans, C. J. [Reprint author]; Blasig, I. E.; Diefenbacher, A. [Reprint author]
CS Koenigin-Elisabeth-Hospital, Abteilung Psychiatrie, Herzbergstr. 79, 10362, Berlin, Germany
SO Society for Neuroscience Abstracts, (1999) Vol. 25, No. 1-2, pp. 1756. print.
Meeting Info.: 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida, USA. October 23-28, 1999. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 24 May 2000
Last Updated on STN: 5 Jan 2002

L5 ANSWER 16 OF 79 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1999:330358 BIOSIS
DN PREV199900330358
TI S-100beta release in hypothermic circulatory arrest and coronary artery surgery.
AU Wong, Carl H.; Rooney, Stephen J.; Bonser, Robert S. [Reprint author]
CS Cardiothoracic Surgical Unit, University Hospital Birmingham, Queen Elizabeth Medical Centre, Edgbaston, Birmingham, B15 2TH, UK
SO Annals of Thoracic Surgery, (June, 1999) Vol. 67, No. 6, pp. 1911-1914. print.
ISSN: 0003-4975.
DT Article
LA English
ED Entered STN: 24 Aug 1999
Last Updated on STN: 24 Aug 1999

L5 ANSWER 17 OF 79 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 2003:37330254 BIOTECHNO
TI Release patterns of astrocytic and neuronal biochemical markers in ***serum*** during and after experimental settings of cardiac surgery
AU Abdul-Khaliq H.; Schubert S.; Stoltenburg-Didinger G.; Huebler M.; Troitzsch D.; Wehsack A.; Boettcher W.; Schwaller B.; Crausaz M.; Celio M.; Schroter M.L.; Blasig I.E.; Hetzer R.; Lange P.E.
CS Dr. H. Abdul-Khaliq, Clin. Congenital Heart Dis. P., Deutsches Herzzentrum Berlin, Augustenburger Platz 1, D-13353 Berlin, Germany.
E-mail: abdul-khaliq@dhzb.de
SO Restorative Neurology and Neuroscience, (2003), 21/3-4 (141-150), 61 reference(s)
CODEN: RNNEEL ISSN: 0922-6028
DT Journal; Conference Article
CY Ireland
LA English
SL English

L5 ANSWER 18 OF 79 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 2003:37266121 BIOTECHNO
TI Impairment of ***blood*** - ***brain*** ***barrier*** integrity during carotid surgery as assessed by ***serum*** S-100B protein concentrations
AU Jaranyi Z.; Szekely M.; Bobek I.; Galfy I.; Geller L.; Selmeci L.
CS Prof. L. Selmeci, Department of Cardiovascular Surgery, Central Laboratory, Semmelweis Univ. Faculty of Medicine, Varosmajor u. 68, 1122 Budapest, Hungary.
E-mail: laszlo.selmeci@mailexcite.com
SO Clinical Chemistry and Laboratory Medicine, (2003), 41/10 (1320-1322), 16 reference(s)
CODEN: CCLMFW ISSN: 1434-6621
DT Journal; Article
CY Germany, Federal Republic of

LA English
SL English

L5 ANSWER 19 OF 79 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 2003:36974961 BIOTECHNO
TI ***Serum*** protein S-100b in acute liver failure: Results of the US Acute Liver Failure Study Group
AU Vaquero J.; Jordano Q.; Lee W.M.; Blei A.T.
CS J. Vaquero, Hepatology-Department of Medicine, Northwestern Feinberg Medical School, Northwestern University, Chicago, IL, United States.
SO Liver Transplantation, (01 AUG 2003), 9/8 (887-888), 8 reference(s)
CODEN: LITRFO ISSN: 1527-6465
DT Journal; Letter
CY United States
LA English

L5 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:810281 CAPLUS
DN 141:329890
TI Astrocytic and neuronal biochemical markers in the ***sera*** of subjects with diabetes mellitus
AU Hovsepyan, Meri R.; Haas, Michael J.; Boyajyan, Anna S.; Guevorkyan, Astghik A.; Mamikonyan, Ashot A.; Myers, Susan E.; Mooradian, Arshag D.
CS Department of Internal Medicine, Saint Louis University Medical School, Saint Louis, MO, USA
SO Neuroscience Letters (2004), 369(3), 224-227
CODEN: NELED5; ISSN: 0304-3940
PB Elsevier Ltd.
DT Journal
LA English
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:382768 CAPLUS
DN 141:171928
TI Increased ***S100B*** in cerebrospinal fluid of infants with bacterial meningitis: Relationship to brain damage and routine cerebrospinal fluid findings
AU Gazzolo, Diego; Grutzfeld, Dariusz; Michetti, Fabrizio; Toesca, Amelia; Lituania, Mario; Bruschettini, Matteo; Dobrzanska, Anna; Bruschettini, Pierluigi
CS Department of Pediatrics and Obstetrics and Gynecology, Giannina Gaslini Children's University Hospital, Genoa, Italy
SO Clinical Chemistry (Washington, DC, United States) (2004), 50(5), 941-944
CODEN: CLCHAU; ISSN: 0009-9147
PB American Association for Clinical Chemistry
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:380263 CAPLUS
DN 137:167213
TI ***Serum*** S-100.beta. as a possible marker of ***blood*** - ***brain*** ***barrier*** disruption
AU Kapural, M.; Krizanac-Bengez, Lj.; Barnett, G.; Perl, J.; Masaryk, T.; Apollo, D.; Rasmussen, P.; Mayberg, M. R.; Janigro, D.
CS Cleveland Clinic Foundation NB-20, Department of Neurological Surgery, NB2-137, Cleveland, OH, 44195, USA
SO Brain Research (2002), 940(1,2), 102-104
CODEN: BRREAP; ISSN: 0006-8993
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:549918 CAPLUS
DN 135:299838
TI Influence of alcohol exposure on S-100b ***serum*** levels
AU Biberthaler, P.; Mussack, T.; Wiedemann, E.; Kanz, K. G.; Gilg, T.; Gippner-Steppert, C.; Jochum, M.
CS Chirurgische Klinik, Kliniken Innenstadt, Ludwig-Maximilians-Universitat,

Munchen, Germany
SO Brain Edema XI, Proceedings of the International Symposium, 11th, Newcastle-upon-Tyne, United Kingdom, June 6-10, 1999 (2000), Meeting Date 1999, 177-179. Editor(s): Mendelow, A. David. Publisher: Springer-Verlag Wien, Wien, Austria.
CODEN: 69BOY6
DT Conference
LA English
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:417666 CAPLUS
DN 135:135849
TI Protein S-100B: a ***serum*** marker for ischemic and infectious injury of cerebral tissue
AU Bertsch, Thomas; Casarin, Wendy; Kretschmar, Marianne; Zimmer, Wilma; Walter, Silke; Sommer, Clemens; Muehlhauser, Frank; Ragoschke, Andreas; Kuehl, Sandra; Schmidt, Roland; Pohlmann-Eden, Bernd; Nassabi, Claudius; Nichterlein, Thomas; Fassbender, Klaus
CS Department of Clinical Chemistry, Clinic Mannheim, University of Heidelberg, Mannheim, Germany
SO Clinical Chemistry and Laboratory Medicine (2001), 39(4), 319-323
CODEN: CCLMFW; ISSN: 1434-6621
PB Walter de Gruyter GmbH & Co. KG
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:76425 CAPLUS
DN 134:264372
TI Protein S-100.beta. in brain and ***serum*** after deep hypothermic circulatory arrest in rabbits: relationship to perivascular astrocytic swelling
AU Abdul-Khaliq, Hashim; Schubert, Stephan; Stoltenburg-Didinger, Gisella; Troitzsch, Dirk; Bottcher, Wolfgang; Hubler, Michael; Meissler, Michael; Grosse-Siestrop, Christian; Alexi-Meskishvili, Vladimir; Hetzer, Roland; Lange, Peter E.
CS Deutsches Herzzentrum Berlin, Klinikum Benjamin Franklin, Freie Universitat Berlin, Berlin, Germany
SO Clinical Chemistry and Laboratory Medicine (2000), 38(11), 1169-1172
CODEN: CCLMFW; ISSN: 1434-6621
PB Walter de Gruyter GmbH & Co. KG
DT Journal
LA English
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 26 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2004455621 EMBASE
TI [ ***Serum*** S-100.beta. protein and postoperative neurological dysfunction - Ready for prime time?].
LA PROTEINE SERIQUE S-100.beta. ET LA DYSFONCTION NEUROLOGIQUE POSTOPERATOIRE - CORRELATION PRETE POUR UNE LARGE DIFFUSION?.
AU Hall R.I.
CS Dr. R.I. Hall, Department of Anesthesia, Halifax Infirmary, Queen Elizabeth II Sciences Centre, 1796 Summer Street, Halifax, NS B3H 3A7, Canada. rihall@dal.ca
SO Canadian Journal of Anesthesia, (2004) 51/7 (645-648).
Refs: 19
ISSN: 0832-610X CODEN: CJOAEP
CY Canada
DT Journal; Editorial
FS 005 General Pathology and Pathological Anatomy
008 Neurology and Neurosurgery
024 Anesthesiology
029 Clinical Biochemistry
037 Drug Literature Index
LA English; French

L5 ANSWER 27 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2004337681 EMBASE

TI Neurofilament light protein and glial fibrillary acidic protein as biological markers in MS [5] (multiple letters).
AU Avasarala J.R.; Lycke J.N.; Malmestrom C.; Haghighi S.; Rosengren L.; Andersen O.
CS United States
SO Neurology, (10 Aug 2004) 63/3 (599).
ISSN: 0028-3878 CODEN: NEURAI
CY United States
DT Journal; Letter
FS 008 Neurology and Neurosurgery
029 Clinical Biochemistry
LA English

L5 ANSWER 28 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2004063147 EMBASE
TI Acute Neurovascular Syndromes: Hurry Up, Please, It's Time.
AU Kennedy J.; Buchan A.M.
CS Dr. A.M. Buchan, Stroke Research Office, Foothills Medical Centre, 1403 29th St NW, Calgary, Alta. T2N 2T9, Canada. abuchan@ucalgary.ca
SO Stroke, (2004) 35/2 (360-362).
Refs: 33
ISSN: 0039-2499 CODEN: SJCCA7
CY United States
DT Journal; (Short Survey)
FS 006 Internal Medicine
008 Neurology and Neurosurgery
014 Radiology
036 Health Policy, Economics and Management
037 Drug Literature Index
LA English

L5 ANSWER 29 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2003438695 EMBASE
TI Peripheral markers of brain damage and ***blood*** - ***brain*** ***barrier*** dysfunction.
AU Marchi N.; Rasmussen P.; Kapural M.; Fazio V.; Kight K.; Mayberg M.R.; Kanner A.; Ayumar B.; Albensi B.; Cavaglia M.; Janigro D.
CS Dr. D. Janigro, Cerebrovascular Research, Cleveland Clinic Foundation NB20, 9500 Euclid Avenue, Cleveland, OH 44195, United States. janigrd@ccf.org
SO Restorative Neurology and Neuroscience, (2003) 21/3-4 (109-121).
Refs: 84
ISSN: 0922-6028 CODEN: RNNEEL
CY Ireland
DT Journal; Conference Article
FS 008 Neurology and Neurosurgery
LA English
SL English

L5 ANSWER 30 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2003438692 EMBASE
TI Molecular markers of brain damage: Current state and future perspectives.
AU Herrmann M.; Johnsson P.; Romner B.
CS Dr. M. Herrmann, Center for Advanced Imaging, Dept. Neuropsychol. Behav. Neurbio., University of Bremen, Grazer Strasse 6, D-28359 Bremen, Germany. manfred.herrmann@.uni-bremen.de
SO Restorative Neurology and Neuroscience, (2003) 21/3-4 (75-77).
ISSN: 0922-6028 CODEN: RNNEEL
CY Ireland
DT Journal; Conference Article
FS 008 Neurology and Neurosurgery
LA English

L5 ANSWER 31 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2003369597 EMBASE
TI ***Serum*** interleukin-8 as a predictive marker for a comparative neurologic outcome analysis of patients resuscitated after cardiopulmonary arrest [3] (multiple letters).
AU Ito T.; Saitoh D.; Takasu A.; Norio H.; Kiyozumi T.; Sakamoto T.; Okada Y.; Mussack T.; Biberthaler P.; Mutschler W.; Jochum M.
CS T. Ito, Dept. Traumatology/Critical Care M., National Defense Medical College, Saitama, Japan

SO Critical Care Medicine, (1 Sep 2003) 31/9 (2415-2417).
ISSN: 0090-3493 CODEN: CCMDC7
CY United States
DT Journal; Letter
FS 008 Neurology and Neurosurgery
018 Cardiovascular Diseases and Cardiovascular Surgery
024 Anesthesiology
029 Clinical Biochemistry
LA English

L5 ANSWER 32 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003308188 EMBASE
TI Assessment of early brain damage in carotid endarterectomy: Evaluation of S-100B ***serum*** levels and somatosensory evoked potentials in a pilot study.
AU Mussack T.; Biberthaler P.; Geisenberger T.; Gippner-Steppert C.; Steckmeier B.; Mutschler W.; Jochum M.
CS Dr. T. Mussack, Department of Surgery Innenstadt, Klinikum der Universitat Munchen, Nussbaumstrasse 20, D-80336 Munchen, Germany. tmussack@helios.med.uni-muenchen.de
SO World Journal of Surgery, (2002) 26/10 (1251-1255).
Refs: 27
ISSN: 0364-2313 CODEN: WJSUDI
CY United States
DT Journal; Conference Article
FS 006 Internal Medicine
008 Neurology and Neurosurgery
009 Surgery
029 Clinical Biochemistry
LA English
SL English; French; Spanish

L5 ANSWER 33 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003261139 EMBASE
TI What is a glial cell?.
AU Barres B.A.
CS Dr. B.A. Barres, Stanford Univ. School of Medicine, Department of Neurobiology, 299 Campus Drive, Stanford, CA 94305-5125, United States. barres@stanford.edu
SO GLIA, (1 Jul 2003) 43/1 (4-5).
ISSN: 0894-1491 CODEN: GLIAEJ
CY United States
DT Journal; Editorial
FS 002 Physiology
008 Neurology and Neurosurgery
021 Developmental Biology and Teratology
029 Clinical Biochemistry
LA English

L5 ANSWER 34 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003228120 EMBASE
TI Invited commentary.
AU Jonsson H.
CS Dr. H. Jonsson, Department of Cardiothoracic Surgery, University Hospital Lund, Lund SE-225 85, Sweden. henrikjonsson@thorax.lu.se
SO Annals of Thoracic Surgery, (1 Jun 2003) 75/6 (1897-1898).
Refs: 2
ISSN: 0003-4975 CODEN: ATHSAK
PUI S 0003-4975(03)00359-X
CY United States
DT Journal; Note
FS 008 Neurology and Neurosurgery
018 Cardiovascular Diseases and Cardiovascular Surgery
029 Clinical Biochemistry
LA English

L5 ANSWER 35 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003113861 EMBASE
TI ***serum*** transthyretin monomer as a possible marker of ***blood*** -to-CSF barrier disruption.
AU Marchi N.; Fazio V.; Cucullo L.; Kight K.; Masaryk T.; Barnett G.; Volgelbaum M.; Kinter M.; Rasmussen P.; Mayberg M.R.; Janigro D.

CS Dr. D. Janigro, Cerebrovascular Research, NB-20 Lerner Research Institute, Cleveland Clinic Foundation, 9600 Eudid Avenue, Cleveland, OH 44196, United States. janigrd@ccf.org
SO Journal of Neuroscience, (1 Mar 2003) 23/5 (1949-1955).
Refs: 38
ISSN: 0270-6474 CODEN: JNRSDS
CY United States
DT Journal; Article
FS 008 Neurology and Neurosurgery
029 Clinical Biochemistry
LA English
SL English

L5 ANSWER 36 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2003036379 EMBASE
TI Increased ***S100B*** in ***blood*** after cardiac surgery is a powerful predictor of late mortality.
AU Johnsson P.; Backstrom M.; Bergh C.; Jonsson H.; Luhrs C.; Alling C.
CS Dr. P. Johnsson, Dept. of Coronary Artery Disease, Center of Heart and Lung Disease, Lund University Hospital, SE 221 85 Lund, Sweden. pelle.johnsson@skane.se
SO Annals of Thoracic Surgery, (1 Jan 2003) 75/1 (162-168).
Refs: 21
ISSN: 0003-4975 CODEN: ATHSAK
PUI S 0003-4975(02)04318-7
CY United States
DT Journal; Article
FS 018 Cardiovascular Diseases and Cardiovascular Surgery
029 Clinical Biochemistry
LA English
SL English

L5 ANSWER 37 OF 79 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2002204339 EMBASE
TI Shunts in unexplained psychotic reactions and encephalopathy [2].
AU Kroll J.
CS J. Kroll, Department of Clinical Chemistry, Blekinge County Hospital, Karlskrona, Sweden. krollj@danbbs.dk
SO Lancet, (18 May 2002) 359/9319 (1776).
Refs: 5
ISSN: 0140-6736 CODEN: LANCAO
CY United Kingdom
DT Journal; Letter
FS 006 Internal Medicine
008 Neurology and Neurosurgery
032 Psychiatry
048 Gastroenterology
LA English

L5 ANSWER 38 OF 79 FEDRIP COPYRIGHT 2004 NTIS on STN
AN 2004:211571 FEDRIP
NR CRISP 2R01NS020618-20
TI Brain Vascularity in Cardiac Surgery & Neurodegeneration
SF Principal Investigator: MOODY, DIXON M; DMMOODY@WFUBMC.EDU, WAKE FOREST UNIV SCHOOL OF MED, MEDICAL CENTER BLVD, WINSTON-SALEM, NC 27157
CSP WAKE FOREST UNIVERSITY HEALTH SCIENCES, WINSTON-SALEM, NORTH CAROLINA
CSS Supported By: NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE
DB 2004 (/01/84)
FYR 2003
DE 2006 (/30/08)
FU Competing Continuation (Type 2)
FS National Institutes of Health

L5 ANSWER 39 OF 79 MEDLINE on STN
AN 2004207791 MEDLINE
DN PubMed ID: 15105899
TI [Role of ***S100B*** protein in neoplasms and other diseases].
Az ***S100B*** protein marker szerepe daganatokban es mas korkepekben.
AU Banfalvi Teodora; Gergye Maria; Beczassy Eniko; Gilde Katalin; Otto Szabolcs
CS Borgyogyaszati Osztaly, Orszagos Onkologiai Intezet, Budapest 1122, Hungary.. banfalvi@oncol.hu
SO Magyar onkologia, (2004) 48 (1) 71-4. Ref: 39
Journal code: 9313833. ISSN: 0025-0244.

CY Hungary
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA Hungarian
FS Priority Journals
EM 200407
ED Entered STN: 20040424
Last Updated on STN: 20040707
Entered Medline: 20040706

L5 ANSWER 40 OF 79 MEDLINE on STN
AN 2002369790 MEDLINE
DN PubMed ID: 12113780
TI Isolating vessels from the mouse brain for gene expression analysis using laser capture microdissection.
AU Ball Helen J; McParland Brent; Driussi Catherine; Hunt Nicholas H
CS Department of Pathology, Blackburn Bldg. D06, University of Sydney, Camperdown N.S.W. 2006, Australia.. helenb@med.usyd.edu.au
SO Brain research. Brain research protocols, (2002 Jun) 9 (3) 206-13.
Journal code: 9716650. ISSN: 1385-299X.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200209
ED Entered STN: 20020713
Last Updated on STN: 20020928
Entered Medline: 20020927

L5 ANSWER 41 OF 79 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 2003:327808 PROMT
TITLE: Work of Cleveland Clinic Researchers May Lead to a ***Blood*** Test for Brain Tumor Diagnosis.
SOURCE: PR Newswire, (2 Jun 2003) pp. CLM00602062003.
PUBLISHER: PR Newswire Association, Inc.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 494
*FULL TEXT IS AVAILABLE IN THE ALL FORMAT*

L5 ANSWER 42 OF 79 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2003:787276 SCISEARCH
GA The Genuine Article (R) Number: 718TA
TI Both aging and chronic fluoxetine increase ***S100B*** content in the mouse hippocampus
AU Akhisaroglu M; Manev R; Akhisaroglu E; Uz T; Manev H (Reprint)
CS Univ Illinois, Dept Psychiat, Inst Psychiat, 1601 W Taylor St, MC912, Chicago, IL 60612 USA (Reprint); Univ Illinois, Dept Psychiat, Inst Psychiat, Chicago, IL 60612 USA
CYA USA
SO NEUROREPORT, (6 AUG 2003) Vol. 14, No. 11, pp. 1471-1473.
Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.
ISSN: 0959-4965.
DT Article; Journal
LA English
REC Reference Count: 24
*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*

L5 ANSWER 43 OF 79 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2000:36629 SCISEARCH
GA The Genuine Article (R) Number: 270XY
TI Breaking down the ***blood*** - ***brain*** ***barrier***
AU Bokesch P M (Reprint)
CS CLEVELAND CLIN FDN, DEPT CARDIOTHORAC ANESTHESIA, 9500 EUCLID AVE, CLEVELAND, OH 44195 (Reprint)
CYA USA
SO ANNALS OF THORACIC SURGERY, (DEC 1999) Vol. 68, No. 6, pp. 2013-2014.
Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY 10010.
ISSN: 0003-4975.
DT Editorial; Journal

FS LIFE; CLIN
LA English
REC Reference Count: 16

L5 ANSWER 44 OF 79 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 93:463333 SCISEARCH
GA The Genuine Article (R) Number: LN610
TI BIOLOGICAL STUDIES OF A PUTATIVE AVIAN MUSCLE-DERIVED NEUROTROPHIC FACTOR THAT PREVENTS NATURALLY-OCCURRING MOTONEURON DEATH IN-VIVO
AU OPPENHEIM R W (Reprint); PREVETTE D; HAVERKAMP L J; HOUENOU L; YIN Q W; MCMANAMAN J
CS WAKE FOREST UNIV, BOWMAN GRAY SCH MED, DEPT NEUROBIOL & ANAT, WINSTON SALEM, NC, 27157 (Reprint); BAYLOR COLL MED, DEPT NEUROL, HOUSTON, TX, 77030; WAKE FOREST UNIV, BOWMAN GRAY SCH MED, NEUROSCI PROGRAM, WINSTON SALEM, NC, 27157
CYA USA
SO JOURNAL OF NEUROBIOLOGY, (AUG 1993) Vol. 24, No. 8, pp. 1065-1079. ISSN: 0022-3034.
DT Article; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 83
*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*

L5 ANSWER 45 OF 79 TOXCENTER COPYRIGHT 2004 ACS on STN
AN 2002:560265 TOXCENTER
DN CRISP-2000-GM45455-090007
TI GROWTH FACTOR EFFECTS ON SEPTAL CHOLINERGIC NEURONS
AU MUDD L M
CS BARRY UNIVERSITY, 11300 NE 2ND AVE, MIAMI SHORES, FL 33161:FLORIDA
CSS U.S. DEPT. OF HEALTH AND HUMAN SERVICES; PUBLIC HEALTH SERVICE; NATIONAL INSTITUTES OF HEALTH, NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
SO Crisp Data Base National Institutes of Health.
DT (Research)
FS CRISP
LA English
ED Entered STN: 20021200
Last Updated on STN: 20021200

L5 ANSWER 46 OF 79 TOXCENTER COPYRIGHT 2004 ACS on STN
AN 2002:554718 TOXCENTER
DN CRISP-1999-GM45455-08A10007
TI GROWTH FACTOR EFFECTS ON SEPTAL CHOLINERGIC NEURONS
AU MUDD L M
CS BARRY UNIVERSITY, 11300 NE 2ND AVE, MIAMI SHORES, FL 33161:FLORIDA
CSS U.S. DEPT. OF HEALTH AND HUMAN SERVICES; PUBLIC HEALTH SERVICE; NATIONAL INSTITUTES OF HEALTH, NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
SO Crisp Data Base National Institutes of Health.
DT (Research)
FS CRISP
LA English
ED Entered STN: 20021200
Last Updated on STN: 20021200

L5 ANSWER 47 OF 79 USPATFULL on STN
AN 2004:267766 USPATFULL
TI Diagnostic markers of stroke and cerebral injury and methods of use thereof
IN Valkirs, Gunars, Escondido, CA, UNITED STATES
Dahlen, Jeffrey, San Diego, CA, UNITED STATES
Kirchick, Howard, San Diego, CA, UNITED STATES
Buechler, Kenneth F., San Diego, CA, UNITED STATES
PA Biosite Incorporated (U.S. corporation)
PI US 2004209307 A1 20041021
AI US 2003-673077 A1 20030926 (10)
RLI Continuation-in-part of Ser. No. US 2003-371149, filed on 20 Feb 2003, PENDING Continuation-in-part of Ser. No. WO 2002-US26604, filed on 20 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-225082, filed on 20 Aug 2002, PENDING
PRAI US 2001-313775P 20010820 (60)
US 2001-334964P 20011130 (60)
US 2002-346485P 20020102 (60)
US 2001-313775P 20010820 (60)
US 2001-334964P 20011130 (60)
US 2002-346485P 20020102 (60)

DT Utility
FS APPLICATION
LN.CNT 5149
INCL INCLM: 435/007.100
NCL NCLM: 435/007.100
IC [7]
ICM: G01N033-53
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 48 OF 79 USPATFULL on STN
AN 2004:261857 USPATFULL
TI Methods and compositions in treating pain and painful disorders using 16386,15402, 21165, 1423, 636, 12303, 21425, 27410, 38554, 38555, 55063, 57145, 59914, 94921, 16852, 33260, 58573, 30911, 85913, 14303, 16816, 17827 or 32620
IN Silos-Santiago, Inmaculada, Del Mar, CA, UNITED STATES
Karicheti, Venkateswarlu, Chapel Hill, NC, UNITED STATES
Eliasof, Scott D., Lexington, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2004204359 A1 20041014
AI US 2004-768158 A1 20040130 (10)
PRAI US 2003-444781P 20030204 (60)
US 2003-452291P 20030305 (60)
US 2003-454540P 20030313 (60)
US 2003-478805P 20030616 (60)
US 2003-491048P 20030730 (60)
DT Utility
FS APPLICATION
LN.CNT 10616
INCL INCLM: 514/012.000
INCLS: 435/007.100; 424/143.100
NCL NCLM: 514/012.000
NCLS: 435/007.100; 424/143.100
IC [7]
ICM: G01N033-53
ICS: A61K038-17; A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 49 OF 79 USPATFULL on STN
AN 2004:158573 USPATFULL
TI Extracellular novel RAGE binding protein (EN-RAGE) and uses thereof
IN Schmidt, Ann Marie, Franklin Lakes, NJ, UNITED STATES
Stern, David, Great Neck, NY, UNITED STATES
PA The Trustees of Columbia University in the City of New York (U.S. corporation)
PI US 2004121372 A1 20040624
AI US 2003-665867 A1 20030919 (10)
RLI Continuation of Ser. No. US 2001-826589, filed on 5 Apr 2001, GRANTED, Pat. No. US 6670136 Continuation of Ser. No. WO 1999-US23303, filed on 6 Oct 1999, PENDING Continuation-in-part of Ser. No. US 1999-263312, filed on 5 Mar 1999, GRANTED, Pat. No. US 6555340 Continuation-in-part of Ser. No. US 1998-167705, filed on 6 Oct 1998, PENDING
DT Utility
FS APPLICATION
LN.CNT 2855
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/320.100; 435/252.300; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/320.100; 435/252.300; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 50 OF 79 USPATFULL on STN
AN 2004:138995 USPATFULL
TI System and method for neuronal network analysis
IN Evans, Daron G., Dallas, TX, UNITED STATES
PI US 2004106168 A1 20040603
AI US 2003-370786 A1 20030220 (10)
PRAI US 2002-430409P 20021202 (60)
DT Utility
FS APPLICATION
LN.CNT 1747

INCL INCLM: 435/040.500
INCLS: 435/029.000; 435/283.100
NCL NCLM: 435/040.500
NCLS: 435/029.000; 435/283.100
IC [7]
ICM: G01N033-48
ICS: C12M001-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 51 OF 79 USPATFULL on STN
AN 2004:108140 USPATFULL
TI Azole derivatives and fused bicyclic azole derivatives as therapeutic agents
IN Mjalli, Adnan M.M., Jamestown, NC, UNITED STATES
Andrews, Robert C., Jamestown, NC, UNITED STATES
Gopalaswamy, Ramesh, Jamestown, NC, UNITED STATES
Hari, Anitha, High Point, NC, UNITED STATES
Avor, Kwasi S., High Point, NC, UNITED STATES
Qabaja, Ghassan, High Point, NC, UNITED STATES
Guo, Xiao-Chuan, High Point, NC, UNITED STATES
Gupta, Suparna, Greensboro, NC, UNITED STATES
Jones, David R., Asheboro, NC, UNITED STATES
Chen, Xin, High Point, NC, UNITED STATES
PI US 2004082542 A1 20040429
AI US 2003-382203 A1 20030305 (10)
PRAI US 2002-361983P 20020305 (60)
DT Utility
FS APPLICATION
LN.CNT 15091
INCL INCLM: 514/063.000
INCLS: 514/310.000; 514/314.000; 514/365.000; 514/374.000; 514/400.000; 514/266.200; 514/266.230; 544/284.000; 546/148.000; 548/110.000; 548/190.000; 548/222.000; 548/326.500; 514/264.100; 544/279.000
NCL NCLM: 514/063.000
NCLS: 514/310.000; 514/314.000; 514/365.000; 514/374.000; 514/400.000; 514/266.200; 514/266.230; 544/284.000; 546/148.000; 548/110.000; 548/190.000; 548/222.000; 548/326.500; 514/264.100; 544/279.000
IC [7]
ICM: A61K031-695
ICS: A61K031-4709; A61K031-517; A61K031-519; A61K031-426; A61K031-422; A61K031-4162
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 52 OF 79 USPATFULL on STN
AN 2004:95541 USPATFULL
TI Therapeutic polypeptides, nucleic acids encoding same, and methods of use
IN Alsobrook, John P., II, Madison, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Furtak, Katarzyna, Ansonia, CT, UNITED STATES
Gangolli, Esha A., Cambridge, MA, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Gilbert, Jennifer A., Madison, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Ji, Weizhen, Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Mishra, Vishnu, Gainesville, FL, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Zhong, Mei, Branford, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES

Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
PI US 2004072997 A1 20040415
AI US 2003-336603 A1 20030103 (10)
RLI Continuation-in-part of Ser. No. US 2000-746491, filed on 20 Dec 2000, PENDING Continuation-in-part of Ser. No. US 2001-55569, filed on 26 Oct 2001, PENDING
PRAI US 2002-345222P 20020104 (60)
US 2002-348693P 20020114 (60)
US 2002-349182P 20020116 (60)
US 2002-349733P 20020117 (60)
US 2002-350263P 20020118 (60)
US 2002-351977P 20020124 (60)
US 2002-383758P 20020528 (60)
US 2002-385969P 20020605 (60)
US 2002-387834P 20020611 (60)
US 2002-396407P 20020717 (60)
US 2002-415115P 20020930 (60)
DT Utility
FS APPLICATION
LN.CNT 22075
INCL INCLM: 530/350.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 536/023.500; 530/388.220
NCL NCLM: 530/350.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 536/023.500; 530/388.220
IC [7]
ICM: C07K014-705
ICS: C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 53 OF 79 USPATFULL on STN
AN 2004:95290 USPATFULL
TI Synthetic peptide as treatment for down's syndrome and schizophrenia
IN Lipps, Binie V., Bellaire, TX, UNITED STATES
Lipps, Frederick W., Bellaire, TX, UNITED STATES
PI US 2004072744 A1 20040415
AI US 2002-242175 A1 20020912 (10)
DT Utility
FS APPLICATION
LN.CNT 606
INCL INCLM: 514/012.000
INCLS: 514/014.000; 514/015.000
NCL NCLM: 514/012.000
NCLS: 514/014.000; 514/015.000
IC [7]
ICM: A61K038-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 54 OF 79 USPATFULL on STN
AN 2004:94708 USPATFULL
TI Molecular toxicology modeling
IN Mendrick, Donna, Gaithersburg, MD, UNITED STATES
Porter, Mark, Gaithersburg, MD, UNITED STATES
Johnson, Kory, Gaithersburg, MD, UNITED STATES
Higgs, Brandon, Gaithersburg, MD, UNITED STATES
Castle, Arthur, Gaithersburg, MD, UNITED STATES
Elashoff, Michael, Gaithersburg, MD, UNITED STATES
PI US 2004072160 A1 20040415
AI US 2002-152319 A1 20020522 (10)
PRAI US 2001-292335P 20010522 (60)
US 2001-297523P 20010613 (60)
US 2001-298925P 20010619 (60)
US 2001-303810P 20010710 (60)
US 2001-303807P 20010710 (60)
US 2001-303808P 20010710 (60)
US 2001-315047P 20010828 (60)
US 2001-324928P 20010927 (60)
US 2001-330867P 20011101 (60)
US 2001-330462P 20011022 (60)
US 2001-331805P 20011121 (60)
US 2001-336144P 20011206 (60)
US 2001-340873P 20011219 (60)
US 2002-357843P 20020221 (60)
US 2002-357842P 20020221 (60)
US 2002-357844P 20020221 (60)
US 2002-364134P 20020315 (60)

US 2002-370206P 20020408 (60)
US 2002-370247P 20020408 (60)
US 2002-370144P 20020408 (60)
US 2002-371679P 20020412 (60)
US 2002-372794P 20020417 (60)
DT Utility
FS APPLICATION
LN.CNT 27909
INCL INCLM: 435/006.000
INCLS: 435/091.200; 436/084.000
NCL NCLM: 435/006.000
NCLS: 435/091.200; 436/084.000
IC [7]
ICM: C12Q001-68
ICS: C12P019-34; G01N033-20
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 55 OF 79 USPATFULL on STN
AN 2004:7343 USPATFULL
TI Nucleic acids, proteins, and antibodies
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)
PI US 2004005577 A1 20040108
AI US 2002-242747 A1 20020913 (10)
RLI Continuation of Ser. No. US 2001-764881, filed on 17 Jan 2001, PENDING
PRAI US 2000-179065P 20000131 (60)
US 2000-180628P 20000204 (60)
US 2000-214886P 20000628 (60)
US 2000-217487P 20000711 (60)
US 2000-225758P 20000814 (60)
US 2000-220963P 20000726 (60)
US 2000-217496P 20000711 (60)
US 2000-225447P 20000814 (60)
US 2000-218290P 20000714 (60)
US 2000-225757P 20000814 (60)
US 2000-226868P 20000822 (60)
US 2000-216647P 20000707 (60)
US 2000-225267P 20000814 (60)
US 2000-216880P 20000707 (60)
US 2000-225270P 20000814 (60)
US 2000-251869P 20001208 (60)
US 2000-235834P 20000927 (60)
US 2000-234274P 20000921 (60)
US 2000-234223P 20000921 (60)
US 2000-228924P 20000830 (60)
US 2000-224518P 20000814 (60)
US 2000-236369P 20000929 (60)
US 2000-224519P 20000814 (60)
US 2000-220964P 20000726 (60)
US 2000-241809P 20001020 (60)
US 2000-249299P 20001117 (60)
US 2000-236327P 20000929 (60)
US 2000-241785P 20001020 (60)
US 2000-244617P 20001101 (60)
US 2000-225268P 20000814 (60)
US 2000-236368P 20000929 (60)
US 2000-251856P 20001208 (60)
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US 2000-234997P 20000925 (60)
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US 2000-237038P 20001002 (60)
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US 2000-237037P 20001002 (60)
US 2000-237040P 20001002 (60)

US 2000-240960P 20001020 (60)
US 2000-239935P 20001013 (60)
US 2000-239937P 20001013 (60)
US 2000-241787P 20001020 (60)
US 2000-246474P 20001108 (60)
US 2000-246532P 20001108 (60)
US 2000-249216P 20001117 (60)
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US 2000-225759P 20000814 (60)
US 2000-225213P 20000814 (60)
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US 2000-235836P 20000927 (60)
US 2000-230438P 20000906 (60)
US 2000-215135P 20000630 (60)
US 2000-225266P 20000814 (60)
US 2000-249218P 20001117 (60)
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US 2000-232397P 20000914 (60)
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US 2000-241808P 20001020 (60)
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US 2000-231243P 20000908 (60)
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US 2000-232398P 20000914 (60)
US 2000-234998P 20000925 (60)
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US 2000-251479P 20001206 (60)
US 2000-256719P 20001205 (60)
US 2000-250160P 20001201 (60)
US 2000-251989P 20001208 (60)
US 2000-250391P 20001201 (60)
US 2000-254097P 20001211 (60)

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        US 2000-231968P     20000912 (60)
        US 2000-226279P     20000818 (60)
        US 2000-186350P     20000302 (60)
        US 2000-184664P     20000224 (60)
        US 2000-189874P     20000316 (60)
        US 2000-198123P     20000418 (60)
        US 2000-227009P     20000823 (60)
        US 2000-235484P     20000926 (60)
        US 2000-190076P     20000317 (60)
        US 2000-209467P     20000607 (60)
        US 2000-205515P     20000519 (60)
        US 2001-259678P     20010105 (60)
DT      Utility
FS      APPLICATION
LN.CNT 27694
INCL    INCLM: 435/006.000
        INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL     NCLM:  435/006.000
        NCLS:  435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC      [7]
        ICM: C12Q001-68
        ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 56 OF 79  USPATFULL on STN
AN      2004:2561  USPATFULL
TI      Proteins, polynucleotides encoding them and methods of using the same
IN      Pena, Carol E. A., New Haven, CT, UNITED STATES
        Shimkets, Richard A., Guilford, CT, UNITED STATES
        Li, Li, Branford, CT, UNITED STATES
        Shenoy, Suresh G., Branford, CT, UNITED STATES
        Kekuda, Ramesh, Norwalk, CT, UNITED STATES
        Spytek, Kimberly A., New Haven, CT, UNITED STATES
        Vernet, Corine A.M., Branford, CT, UNITED STATES
        Malyankar, Uriel M., Branford, CT, UNITED STATES
        Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
        Gusev, Vladimir Y., Madison, CT, UNITED STATES
        Casman, Stacie J., North Haven, CT, UNITED STATES
        Boldog, Ferenc L., North Haven, CT, UNITED STATES
        Furtak, Katarzyna, Ansonia, CT, UNITED STATES
        Tchernev, Velizar T., Branford, CT, UNITED STATES
        Patturajan, Meera, Branford, CT, UNITED STATES
        Gangolli, Esha A., Madison, CT, UNITED STATES
        Padigaru, Muralidhara, Branford, CT, UNITED STATES
        Liu, Xiaohong, Branford, CT, UNITED STATES
        Baumgartner, Jason C., New Haven, CT, UNITED STATES
        Gerlach, Valerie, Branford, CT, UNITED STATES
        Spaderna, Steven K., Berlin, CT, UNITED STATES
        Zerhusen, Bryan D., Branford, CT, UNITED STATES
PI      US 2004002584       A1   20040101
AI      US 2002-80334       A1   20020221 (10)
PRAI    US 2001-270523P      20010221 (60)
        US 2001-322712P      20010917 (60)
        US 2001-311980P      20010813 (60)
        US 2001-330307P      20011018 (60)
        US 2001-278796P      20010326 (60)
        US 2001-281521P      20010404 (60)
        US 2001-276677P      20010316 (60)
        US 2001-311595P      20010810 (60)
        US 2001-270220P      20010221 (60)
        US 2001-274295P      20010308 (60)
        US 2001-318526P      20010910 (60)
        US 2001-286548P      20010425 (60)
        US 2001-291765P      20010517 (60)
        US 2001-270797P      20010223 (60)
        US 2001-276400P      20010316 (60)
        US 2001-270810P      20010223 (60)
DT      Utility
FS      APPLICATION
LN.CNT 20544
INCL    INCLM: 530/350.000
NCL     NCLM:  530/350.000
IC      [7]
        ICM: C07K001-00
        ICS: C07K014-00; C07K017-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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L5 ANSWER 57 OF 79 USPATFULL on STN
AN 2004:2099 USPATFULL
TI Therapeutic polypeptides, nucleic acids encoding same, and methods of use
IN Kekuda, Ramesh, Danbury, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Liu, Xiaohong, Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Boldog, Ferenc L., North Haven, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Casman, Stacie J., North Haven, CT, UNITED STATES
Pena, Carol E. A., New Haven, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Pochart, Pascale F-J, Madison, CT, UNITED STATES
Fernandes, Elma R., Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
LaRochelle, William J., Madison, CT, UNITED STATES
Zhong, Mei, Branford, CT, UNITED STATES
Khramtsov, Nikolai V., Branford, CT, UNITED STATES
Voss, Edward Z., Wallingford, CT, UNITED STATES
Herrmann, John L., Guilford, CT, UNITED STATES
PI US 2004002120 A1 20040101
AI US 2002-94886 A1 20020307 (10)
PRAI US 2001-274322P 20010308 (60)
US 2001-313182P 20010817 (60)
US 2001-288052P 20010502 (60)
US 2001-318510P 20010910 (60)
US 2001-274281P 20010308 (60)
US 2001-314018P 20010821 (60)
US 2001-274194P 20010308 (60)
US 2001-274849P 20010309 (60)
US 2001-296693P 20010607 (60)
US 2001-313626P 20010820 (60)
US 2001-332486P 20011109 (60)
US 2001-275235P 20010312 (60)
US 2001-275578P 20010313 (60)
US 2001-288228P 20010502 (60)
US 2001-275579P 20010313 (60)
US 2001-312916P 20010816 (60)
US 2001-275601P 20010313 (60)
US 2001-311978P 20010813 (60)
US 2001-276000P 20010314 (60)
US 2001-276776P 20010316 (60)
US 2001-296856P 20010608 (60)
US 2001-276994P 20010319 (60)
US 2001-291766P 20010517 (60)
US 2001-277338P 20010320 (60)
US 2001-288066P 20010502 (60)
US 2001-277239P 20010320 (60)
US 2001-315227P 20010827 (60)
US 2001-318403P 20010910 (60)
US 2001-277327P 20010320 (60)
US 2001-277791P 20010321 (60)
US 2001-325378P 20010927 (60)
US 2001-277833P 20010322 (60)
US 2001-278152P 20010323 (60)
US 2001-310913P 20010808 (60)
US 2001-303237P 20010705 (60)
US 2001-278894P 20010326 (60)

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        US 2001-322360P     20010914 (60)
        US 2001-279036P     20010327 (60)
        US 2001-312191P     20010814 (60)
        US 2001-278999P     20010327 (60)
        US 2001-280233P     20010330 (60)
        US 2001-303230P     20010705 (60)
        US 2001-345399P     20011109 (60)
        US 2001-322296P     20010914 (60)
        US 2001-280802P     20010402 (60)
DT      Utility
FS      APPLICATION
LN.CNT 21071
INCL    INCLM: 435/007.200
        INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;
               514/012.000
NCL     NCLM:  435/007.200
        NCLS:  435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;
               514/012.000
IC      [7]
        ICM: G01N033-53
        ICS: G01N033-567; A61K038-17; C12P021-02; C12N005-06; C07K014-705;
        C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 58 OF 79  USPATFULL on STN
AN      2003:282657  USPATFULL
TI      Diagnostic markers of stroke and cerebral injury and methods of use
        thereof
IN      Valkirs, Gunars E., Escondido, CA, UNITED STATES
        Dahlen, Jeffery, San Diego, CA, UNITED STATES
        Kirchick, Howard J., San Diego, CA, UNITED STATES
        Buechler, Kenneth F., Rancho Santa Fe, CA, UNITED STATES
PI      US 2003199000       A1   20031023
AI      US 2003-371149      A1   20030220 (10)
RLI     Continuation-in-part of Ser. No. US 2002-225082, filed on 20 Aug 2002,
        PENDING Continuation-in-part of Ser. No. WO 2002-US26604, filed on 20
        Aug 2002, PENDING
PRAI    US 2001-313775P     20010820 (60)
        US 2001-334964P     20011130 (60)
        US 2002-346485P     20020102 (60)
DT      Utility
FS      APPLICATION
LN.CNT 4629
INCL    INCLM: 435/007.100
        INCLS: 435/287.200
NCL     NCLM:  435/007.100
        NCLS:  435/287.200
IC      [7]
        ICM: G01N033-53
        ICS: C12M001-34
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 59 OF 79  USPATFULL on STN
AN      2003:225742  USPATFULL
TI      Protein-protein complexes and methods of using same
IN      Giot, Loic, Madison, CT, UNITED STATES
        Eisen, Andrew, Rockville, MD, UNITED STATES
        Lewin, David A., New Haven, CT, UNITED STATES
PI      US 2003157554       A1   20030821
AI      US 2001-4083        A1   20011030 (10)
PRAI    US 2000-244236P     20001030 (60)
DT      Utility
FS      APPLICATION
LN.CNT 5186
INCL    INCLM: 435/007.100
        INCLS: 435/226.000; 435/023.000
NCL     NCLM:  435/007.100
        NCLS:  435/226.000; 435/023.000
IC      [7]
        ICM: G01N033-53
        ICS: C12Q001-37; C12N009-64
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 60 OF 79  USPATFULL on STN
AN      2003:219280  USPATFULL
TI      Method for retarding or precluding alzheimer's dementia
```

IN Jackowski, George, Kettelby, CANADA
Furesz, Shirley, Cambridge, CANADA
PI US 2003152570 A1 20030814
AI US 2002-334701 A1 20021230 (10)
RLI Continuation-in-part of Ser. No. US 2001-859559, filed on 16 May 2001, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 549
INCL INCLM: 424/140.100
NCL NCLM: 424/140.100
IC [7]
ICM: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 61 OF 79 USPATFULL on STN
AN 2003:201372 USPATFULL
TI Novel human proteins, polynucleotides encoding them and methods of using the same
IN Spytek, Kimberly A., New Haven, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Majumder, Kumud, Stamford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Spaderna, Steven K., Berlin, CT, UNITED STATES
Smithson, Glennda, Branford, CT, UNITED STATES
PI US 2003139358 A1 20030724
AI US 2001-849138 A1 20010504 (9)
PRAI US 2000-201951P 20000505 (60)
US 2000-215857P 20000703 (60)
US 2001-265162P 20010130 (60)
US 2000-203109P 20000508 (60)
US 2000-203295P 20000511 (60)
US 2000-210055P 20000607 (60)
US 2000-204064P 20000512 (60)
US 2000-204063P 20000512 (60)
US 2000-204062P 20000512 (60)
US 2000-203838P 20000512 (60)
US 2000-203839P 20000512 (60)
US 2000-204089P 20000515 (60)
US 2000-204276P 20000516 (60)
DT Utility
FS APPLICATION
LN.CNT 8381
INCL INCLM: 514/044.000
INCLS: 514/012.000; 435/006.000; 435/007.100; 435/069.100; 435/183.000; 435/320.100; 536/023.200
NCL NCLM: 514/044.000
NCLS: 514/012.000; 435/006.000; 435/007.100; 435/069.100; 435/183.000; 435/320.100; 536/023.200
IC [7]
ICM: A61K048-00
ICS: A61K038-17; C12Q001-68; G01N033-53; C07H021-04; C12P021-02; C12N009-00; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 62 OF 79 USPATFULL on STN
AN 2003:187348 USPATFULL
TI Method of monitoring neuroprotective treatment
IN Chenard, Bertrand L., Waterford, CT, UNITED STATES
Friedman, David L., Madison, CT, UNITED STATES
Kimmel, Lida, Chester, CT, UNITED STATES
Nelms, Linda F., Gales Ferry, CT, UNITED STATES
Silber, B. Michael, Madison, CT, UNITED STATES
Soares, Holly D., Noank, CT, UNITED STATES
Frost White, Walter, JR., Ledyard, CT, UNITED STATES
PA Pfizer Inc. (U.S. corporation)
PI US 2003129134 A1 20030710
AI US 2002-268465 A1 20021010 (10)
PRAI US 2001-328890P 20011012 (60)
DT Utility
FS APPLICATION
LN.CNT 1218
INCL INCLM: 424/009.300
INCLS: 435/007.920

NCL NCLM: 424/009.300
NCLS: 435/007.920
IC [7]
ICM: G01N033-53
ICS: G01N033-537; G01N033-543
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 63 OF 79 USPATFULL on STN
AN 2003:173220 USPATFULL
TI Diagnostic markers of stroke and cerebral injury and methods of use thereof
IN Valkirs, Gunars E., Escondido, CA, UNITED STATES
Dahlen, Jeffrey R., San Diego, CA, UNITED STATES
Kirchick, Howard J., San Diego, CA, UNITED STATES
Buechler, Kenneth F., Rancho Santa Fe, CA, UNITED STATES
PI US 2003119064 A1 20030626
AI US 2002-225082 A1 20020820 (10)
PRAI US 2002-346485P 20020102 (60)
US 2001-334964P 20011130 (60)
US 2001-313775P 20010820 (60)
DT Utility
FS APPLICATION
LN.CNT 3467
INCL INCLM: 435/007.100
INCLS: 435/007.200
NCL NCLM: 435/007.100
NCLS: 435/007.200
IC [7]
ICM: G01N033-53
ICS: G01N033-567
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 64 OF 79 USPATFULL on STN
AN 2003:146756 USPATFULL
TI Neurogenic compositions and methods
IN Lukanidin, Eugene, Copenhagen, DENMARK
Bock, Elisabeth Marianne, Charlottenlund, DENMARK
Berezin, Vladimir, Copenhagen N., DENMARK
PI US 2003100503 A1 20030529
AI US 2002-269643 A1 20021011 (10)
RLI Division of Ser. No. US 2001-781509, filed on 12 Feb 2001, PENDING
Division of Ser. No. US 1999-393433, filed on 10 Sep 1999, PENDING
DT Utility
FS APPLICATION
LN.CNT 1029
INCL INCLM: 514/012.000
INCLS: 530/350.000
NCL NCLM: 514/012.000
NCLS: 530/350.000
IC [7]
ICM: A61K038-18
ICS: C07K014-475
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 65 OF 79 USPATFULL on STN
AN 2003:134004 USPATFULL
TI Method for diagnosing multiple sclerosis and an assay therefore
IN Moscarello, Mario Anthony, Toronto, CANADA
Chamczuk, Andrea, Toronto, CANADA
PI US 2003092089 A1 20030515
AI US 2001-992174 A1 20011114 (9)
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 435/007.920
NCL NCLM: 435/007.920
IC [7]
ICM: G01N033-53
ICS: G01N033-537; G01N033-543
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 66 OF 79 USPATFULL on STN
AN 2003:45351 USPATFULL
TI Benzimidazole derivatives as therapeutic agents
IN M. Mjalli, Adnan M., Jamestown, NC, UNITED STATES
Gopalaswamy, Ramesh, Jamestown, NC, UNITED STATES

PI US 2003032663 A1 20030213
AI US 2002-91609 A1 20020305 (10)
PRAI US 2001-273377P 20010305 (60)
DT Utility
FS APPLICATION
LN.CNT 1998
INCL INCLM: 514/394.000
INCLS: 548/304.400
NCL NCLM: 514/394.000
NCLS: 548/304.400
IC [7]
ICM: C07D235-08
ICS: A61K031-4184
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 67 OF 79 USPATFULL on STN
AN 2002:338064 USPATFULL
TI Carboxamide derivatives as therapeutic agents
IN Mjalli, Adnan M. M., Jamestown, NC, UNITED STATES
Andrews, Robert C., Jamestown, NC, UNITED STATES
Gopalaswamy, Ramesh, Jamestown, NC, UNITED STATES
Wysong, Chris, Winston-Salem, NC, UNITED STATES
PI US 2002193432 A1 20021219
AI US 2002-91759 A1 20020305 (10)
PRAI US 2001-273454P 20010305 (60)
US 2001-273445P 20010305 (60)
US 2001-273429P 20010305 (60)
US 2001-273455P 20010305 (60)
US 2001-273446P 20010305 (60)
US 2001-273404P 20010305 (60)
US 2001-273403P 20010305 (60)
DT Utility
FS APPLICATION
LN.CNT 2769
INCL INCLM: 514/478.000
INCLS: 514/617.000; 514/626.000; 564/161.000; 560/159.000
NCL NCLM: 514/478.000
NCLS: 514/617.000; 514/626.000; 564/161.000; 560/159.000
IC [7]
ICM: A61K031-325
ICS: A61K031-165; C07C271-08; C07C233-07
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 68 OF 79 USPATFULL on STN
AN 2002:336863 USPATFULL
TI Methods for regulation of immune responses to conditions involving
mediator-induced pathology
IN Calandra, Thierry, Lausanne, SWITZERLAND
Roger, Thierry, Lausanne, SWITZERLAND
Glauser, Michel P., Lausanne, SWITZERLAND
PI US 2002192217 A1 20021219
AI US 2002-94732 A1 20020307 (10)
PRAI US 2001-274004P 20010307 (60)
DT Utility
FS APPLICATION
LN.CNT 2979
INCL INCLM: 424/145.100
INCLS: 514/044.000
NCL NCLM: 424/145.100
NCLS: 514/044.000
IC [7]
ICM: A61K039-395
ICS: A61K048-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 69 OF 79 USPATFULL on STN
AN 2002:307557 USPATFULL
TI Method of treatment of alzheimer's disease and device therefor
IN Jackowski, George, Kettleby, CANADA
Furesz, Shirley, Cambridge, CANADA
PI US 2002172676 A1 20021121
AI US 2001-859559 A1 20010516 (9)
DT Utility
FS APPLICATION
LN.CNT 487
INCL INCLM: 424/140.100

INCLS: 604/005.020
NCL NCLM: 424/140.100
NCLS: 604/005.020
IC [7]
ICM: A61K039-395
ICS: A61M037-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 70 OF 79 USPATFULL on STN
AN 2002:287558 USPATFULL
TI Method for monitoring and validating stress induction of disease state
IN Jackowski, George, Kettleby, CANADA
Stanton, Eric B., Burlington, CANADA
PI US 2002160421 A1 20021031
AI US 2001-846341 A1 20010430 (9)
DT Utility
FS APPLICATION
LN.CNT 704
INCL INCLM: 435/007.100
INCLS: 435/006.000; 702/019.000; 702/020.000
NCL NCLM: 435/007.100
NCLS: 435/006.000; 702/019.000; 702/020.000
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; G06F019-00; G01N033-48; G01N033-50
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 71 OF 79 USPATFULL on STN
AN 2002:186089 USPATFULL
TI Neurogenic compositions and methods
IN Lukanidin, Eugene, Copenhagen, DENMARK
Bock, Elisabeth Marianne, Charlottenlund, DENMARK
Berezin, Vladimir, Copenhagen N., DENMARK
PI US 2002099010 A1 20020725
AI US 2001-781509 A1 20010212 (9)
RLI Division of Ser. No. US 1999-393433, filed on 10 Sep 1999, PENDING
DT Utility
FS APPLICATION
LN.CNT 1029
INCL INCLM: 514/012.000
INCLS: 435/183.000; 435/069.100; 435/320.100; 435/368.000
NCL NCLM: 514/012.000
NCLS: 435/183.000; 435/069.100; 435/320.100; 435/368.000
IC [7]
ICM: A61K038-17
ICS: C12N009-00; C12N005-08; C12P021-02
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 72 OF 79 USPATFULL on STN
AN 2002:165192 USPATFULL
TI Nucleic acids, proteins, and antibodies
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PI US 2002086821 A1 20020704
US 2003125246 A9 20030703
AI US 2001-764881 A1 20010117 (9)
PRAI US 2000-179065P 20000131 (60)
DT Utility
FS APPLICATION
LN.CNT 27531
INCL INCLM: 514/012.000
INCLS: 536/023.100; 435/069.100; 435/183.000; 435/320.100; 435/325.000
NCL NCLM: 514/012.000
NCLS: 536/023.100; 435/069.100; 435/183.000; 435/320.100; 435/325.000
IC [7]
ICM: A61K038-17
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 73 OF 79 USPATFULL on STN
AN 2002:57592 USPATFULL
TI DNA for expression under control of a cell cycle-dependent promoter
IN Sedlacek, Hans-Harald, Marburg, GERMANY, FEDERAL REPUBLIC OF
Muller, Rolf, Marburg, GERMANY, FEDERAL REPUBLIC OF
PA Aventis Pharma Deutschland GmbH, Frankfurt, GERMANY, FEDERAL REPUBLIC OF

(non-U.S. corporation)
PI US 6358732 B1 20020319
WO 9606939 19960307
AI US 1997-793110 19970425 (8)
WO 1995-EP3369 19950825
19970425 PCT 371 date
PRAI GB 1994-17366 19940826
GB 1995-6466 19950329
DT Utility
FS GRANTED
LN.CNT 779
INCL INCLM: 435/320.100
INCLS: 424/093.200; 435/375.000; 435/455.000; 514/044.000; 536/023.100; 536/023.500; 536/024.100
NCL NCLM: 435/320.100
NCLS: 424/093.200; 435/375.000; 435/455.000; 514/044.000; 536/023.100; 536/023.500; 536/024.100
IC [7]
ICM: C12N015-85
ICS: C12N015-86; C07H021-04; A61K048-00
EXF 514/44; 435/320.1; 435/375; 435/172.3; 435/455; 424/93.2; 536/23.1; 536/23.5; 536/24.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 74 OF 79 USPATFULL on STN
AN 2002:12575 USPATFULL
TI Method for the synthesis of compounds of formula I and their uses thereof
IN Mjalli, Adnan M.M., Jamestown, NC, UNITED STATES
Gopalaswamy, Ramesh, Greensboro, NC, UNITED STATES
Avor, Kwasi S., High Point, NC, UNITED STATES
Wysong, Christopher L., Winston-Salem, NC, UNITED STATES
Patron, Andrew, San Diego, CA, UNITED STATES
PI US 2002006957 A1 20020117
US 6613801 B2 20030902
AI US 2001-799317 A1 20010305 (9)
PRAI US 2000-207343P 20000530 (60)
DT Utility
FS APPLICATION
LN.CNT 2005
INCL INCLM: 514/510.000
INCLS: 514/514.000; 568/024.000; 568/048.000
NCL NCLM: 514/514.000
NCLS: 514/516.000; 564/155.000
IC [7]
ICM: A61K031-21
ICS: A61K031-26; C07C321-00; C07C323-00; C07C381-00; C07C319-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 75 OF 79 USPATFULL on STN
AN 2001:123618 USPATFULL
TI NEUROGENIC COMPOSITIONS AND METHODS
IN BOCK, ELISABETH MARIANNE, CHARLOTTENLUND, Denmark
BEREZIN, VLADIMIR, COPENHAGEN, Denmark
LUKANIDIN, EUGENE, COPENHAGEN, Denmark
PI US 2001011126 A1 20010802
AI US 1999-393433 A1 19990910 (9)
DT Utility
FS APPLICATION
LN.CNT 1005
INCL INCLM: 530/839.000
INCLS: 530/350.000; 530/324.000; 514/002.000
NCL NCLM: 530/839.000
NCLS: 530/350.000; 530/324.000; 514/002.000
IC [7]
ICM: A01N037-18
ICS: A61K038-00; C07K005-00; C07K007-00; C07K016-00; C07K017-00; C07K001-00; C07K014-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 76 OF 79 USPATFULL on STN
AN 1998:104754 USPATFULL
TI Carbon monoxide dependent guanylyl cyclase modifiers and methods of use
IN Glasky, Alvin J., 12231 Pevero, Tustin, CA, United States 92680
Rathbone, Michel P., 40 Spadine Avenue, Hamilton, Ontario, Canada L8M 2X1

PI US 5801184 19980901
AI US 1995-488976 19950608 (8)
RLI Continuation-in-part of Ser. No. US 1994-280719, filed on 25 Jul 1994, now patented, Pat. No. US 5447939
DT Utility
FS Granted
LN.CNT 1987
INCL INCLM: 514/310.000
INCLS: 514/262.000; 544/265.000; 544/276.000
NCL NCLM: 514/310.000
NCLS: 514/263.380; 544/265.000; 544/276.000
IC [6]
ICM: A01N043-42
ICS: A01N043-90; C07D473-00
EXF 514/310; 514/262; 544/265; 544/276
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 77 OF 79 USPATFULL on STN
AN 97:38390 USPATFULL
TI Astrocyte-specific transcription of human genes
IN Brenner, Michael, Gaithersburg, MD, United States
Besnard, Francois, Rockville, MD, United States
Nakatani, Yoshihiro, Bethesda, MD, United States
PA United States of America Department of Health and Human Services, Washington, DC, United States (U.S. corporation)
PI US 5627047 19970506
AI US 1994-197463 19940216 (8)
RLI Continuation of Ser. No. US 1991-769626, filed on 4 Oct 1991, now abandoned
DT Utility
FS Granted
LN.CNT 1071
INCL INCLM: 435/069.100
INCLS: 435/069.700; 435/320.100; 435/368.000; 435/354.000; 435/325.000; 536/023.400; 536/023.500; 536/024.100
NCL NCLM: 435/069.100
NCLS: 435/069.700; 435/320.100; 435/325.000; 435/354.000; 435/368.000; 536/023.400; 536/023.500; 536/024.100
IC [6]
ICM: C12N015-85
ICS: C12N015-62; C12N015-10
EXF 435/69.1; 435/69.7; 435/240.2; 435/320.1; 536/23.5; 536/23.4; 536/24.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 78 OF 79 USPATFULL on STN
AN 95:80308 USPATFULL
TI Carbon monoxide dependent guanylyl cyclase modifiers and methods of use
IN Glasky, Alvin J., 12231 Pevero, Tustin, CA, United States 92680
Rathbone, Michael P., 40 Spadina Avenue, Hamilton, Ontario, Canada L8M 2X1
PI US 5447939 19950905
AI US 1994-280719 19940725 (8)
DT Utility
FS Granted
LN.CNT 1990
INCL INCLM: 514/310.000
INCLS: 514/262.000; 544/265.000; 544/276.000
NCL NCLM: 514/310.000
NCLS: 514/263.370; 514/263.380; 544/265.000; 544/276.000
IC [6]
ICM: A61K031-52
EXF 514/310; 514/262; 544/265; 544/276
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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AN 2004-069019 [07] WPIDS
CR 2004-098607 [10]
DNN N2004-055498 DNC C2004-028545
TI Detection of ***blood*** ***brain*** ***barrier*** permeability for diagnosing e.g. neuronal distress, comprises detecting levels of S100 beta protein in ***blood*** samples and comparing the result to a control.
DC B04 D16 S03
IN BARNETT, G; JANIGRO, D; MAYBERG, M
PA (BARN-I) BARNETT G; (JANI-I) JANIGRO D; (MAYB-I) MAYBERG M
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IC ICM G01N033-53
ICS G01N033-542; G01N033-567
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